EMC TEST REPORT

according to

**European Standard EN 55022:2006 Class B,
EN 61000-3-2:2006, EN 61000-3-3:1995/A2:2005,
EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000,
EC 61000-4-3:1995/A2:2002, IEC 61000-4-4:1995/A2:2001,
IEC 61000-4-6:1996/A1:2000, IEC 61000-4-8:1993/A1:2000)**

Equipment : DC-DC Power Supply

Model No. : STC-24XXX、BES-640C、STC-48XXX、BES-640T (X=0~9)

Applicant : **Synocean Technology Co., Ltd.**
4F-1, 201, Sec. II, Ho Ping East Road, Taipei 10664, Taiwan, R.O.C.

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- This test report is only applicable to European Community.

SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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History of this test report

Original Report Issue Date: Feb. 12, 2008

Report No.	Issue Date	Description

Certificate No. : EC812508

CERTIFICATE OF COMPLIANCE

according to

**European Standard EN 55022:2006 Class B,
EN 61000-3-2:2006, EN 61000-3-3:1995/A2:2005,
EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000,
EC 61000-4-3:1995/A2:2002, IEC 61000-4-4:1995/A2:2001,
IEC 61000-4-6:1996/A1:2000, IEC 61000-4-8:1993/A1:2000)**

Equipment : DC-DC Power Supply

Model No. : STC-24XXX、BES-640C、STC-48XXX、BES-640T (X=0~9)

Applicant : **SYNOCEAN TECHNOLOGY CO., LTD.**
4F-1, 201, Sec. II, Ho Ping East Road, Taipei 10664, Taiwan, R.O.C.

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 2004/108/EC.** The equipment was ***passed*** the test performed according to **European Standard EN 55022: 2006 Class B, EN 61000-3-2:2006, EN 61000-3-3:1995/A2:2005, EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000, EC 61000-4-3:1995/A2:2002, IEC 61000-4-4:1995/A2:2001, IEC 61000-4-6:1996/A1:2000, IEC 61000-4-8:1993/A1:2000).** The test was carried out on **Feb. 05, 2008** at **SPORTON International Inc.** LAB.

Feb. 19, 2008
Jones Chang
Supervisor

SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. General Description of Equipment under Test

1.1 Applicant

Synocean Technology Co., Ltd.
4F-1, 201, Sec. II, Ho Ping East Road, Taipei 10664, Taiwan, R.O.C.

1.2 Manufacturer

Same as 1.1

1.3 Basic Description of Equipment under Test

Equipment	:	DC-DC Power Supply
Model No.	:	STC-24XXX、BES-640C、STC-48XXX、BES-640T (X=0~9)
Power Supply Type	:	From battery
DC Power Cable	:	Non-Shielded, 1.2m, 2 pin

1.4 Feature of Equipment under Test

“ Please refer to user manual “

2. Test Configuration of Equipment under Test

2.1 Test Manner

a. During testing, the interface cables and equipment positions were varied according to European Standard EN 55022.
b. The complete test system included Compaq PC, Sony Monitor, EPSON Printer, ACEEX Modem, BTC PS/2 Keyboard, and Microsoft Mouse, DC Source and EUT for EMI test.
c. The following test modes were for final test:
Mode 1. Full system, Power Source: DC 24V
Mode 2. Full system, Power Source: DC 48V
d. The complete test system included Compaq PC, ViewSonic LCD Monitor, Dell PS/2 keyboard and HP PS/2 Mouse and DC Source for EMS test.
Mode 1. Minimal system, Power Source: DC 24V
Mode 2. Minimal system, Power Source: DC 48V
e. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 1000MHz.

2.2 Description of Test System

< EMI >

Support Unit 1. – PC (Compaq)

FCC ID	: N/A
Model No.	: D380MX
Power Supply Type	: Switching
Power Cord	: Non-Shielded
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 2. – Monitor (Sony)

FCC ID	: N/A
Model No.	: G420
Power Supply Type	: Switching
Power Cord	: Non-Shielded
Data Cable	: D-Shielded, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 3. -- Printer (EPSON)

FCC ID	: N/A
Model No.	: LQ-300+
Power Supply Type	: Linear
Power Cord	: Non-Shielded
Data Cable	: D-Shielded, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 4. – Modem (ACEEX)

FCC ID	:IFAXDM1414
Model No.	: DM141
Power Supply Type	: Linear
Power Cord	: Non-Shielded
Data Cable	: D-Shielded, 1.2m

Support Unit 5. – PS/2 Keyboard (BTC)

FCC ID	: N/A
Model No.	: 9110
Data Cable	: AL-F-Shielded, 1.7m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 6. -- Mouse (Microsoft)

FCC ID	: N/A
Model No.	: 1004
Data Cable	: D-Shielded, 1.8 m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 7. -- DC Source (YUASA)

<EMS>

Support Unit 1. – PC (Compaq)

FCC ID	: N/A
Model No.	: Evo D380MX
Power Supply Type	: Switching
Power Cord	: Non-Shielded
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 2. – LCD Monitor (ViewSonic)

FCC ID	: N/A
Model No.	: VX700
Power Supply Type	: Switching
Power Cord	: Non-Shielded
Data Cable	: D-Shielded, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 3. – PS/2 Keyboard (DELL)

FCC ID	: N/A
Model No.	: SK-8110
Data Cable	: AL-F-Shielded, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 4. – PS/2 Mouse (HP)

FCC ID	: N/A
Model No.	: M-S69
Data Cable	: AL-F-Shielded, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 5. – DC Source (YUASA)

3. Test Software

< EMI > & <EMS>

An executive program, “EMCTEST.EXE” under Win XP, which generate a complete line of continuously repeating “ H “ pattern was used as the test software.

The program was executed as follows :

a. Turn on the power of all equipment.
b. The PC reads the test program from the hard disk drive and runs it.
c. The PC sends " H " messages to the monitor, and the monitor displays " H " patterns on the screen.
d. The PC sends " H " messages to the printer, then the printer prints them on the paper.
e. The PC sends " H " messages to the modem.
f. Repeat the steps from c to e.

4. General Information of Test

4.1 Test Facility

<EMI>

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiag, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055

Test Site No. : CO04-HY, 10CH02-HY

<EMS>

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiag, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055

4.2 Test Voltage

DC 24V / DC 48V

4.3 Standard for Methods of Measurement

EMI Test (conduction and radiation) : European Standard EN 55022 Class B
Harmonics Test : European Standard EN 61000-3-2.
Voltage Fluctuations Test : European Standard EN 61000-3-3.
EMS Test : European Standard EN 55024.
(ESD: IEC 61000-4-2, RS: IEC 61000-4-3, EFT: IEC 61000-4-4, CS: IEC 61000-4-6, Power Frequency Magnetic Field: IEC 61000-4-8)

4.4 Test in Compliance with

EMI Test (conduction and radiation) : European Standard EN 55022 Class B
Harmonics Test : European Standard EN 61000-3-2.
Voltage Fluctuations Test : European Standard EN 61000-3-3.
EMS Test : European Standard EN 55024.
(ESD: IEC 61000-4-2, RS: IEC 61000-4-3, EFT: IEC 61000-4-4, CS: IEC 61000-4-6, Power Frequency Magnetic Field: IEC 61000-4-8)

4.5 Frequency Range Investigated

a. Conducted emission test: from 150 kHz to 30 MHz
b. Radiated emission test: from 30 MHz to 1,000 MHz
c. Radio frequency electromagnetic field immunity test : 80-1000 MHz.

4.6 Test Distance

a. The test distance of radiated emission test from antenna to EUT is 10 M.
b. The test distance of radio frequency electromagnetic field immunity test from antenna to EUT is 3 M.

5. Test of Conducted Power line

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in European Standard EN 55022 Clause 9. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position producing maximum conducted emissions.

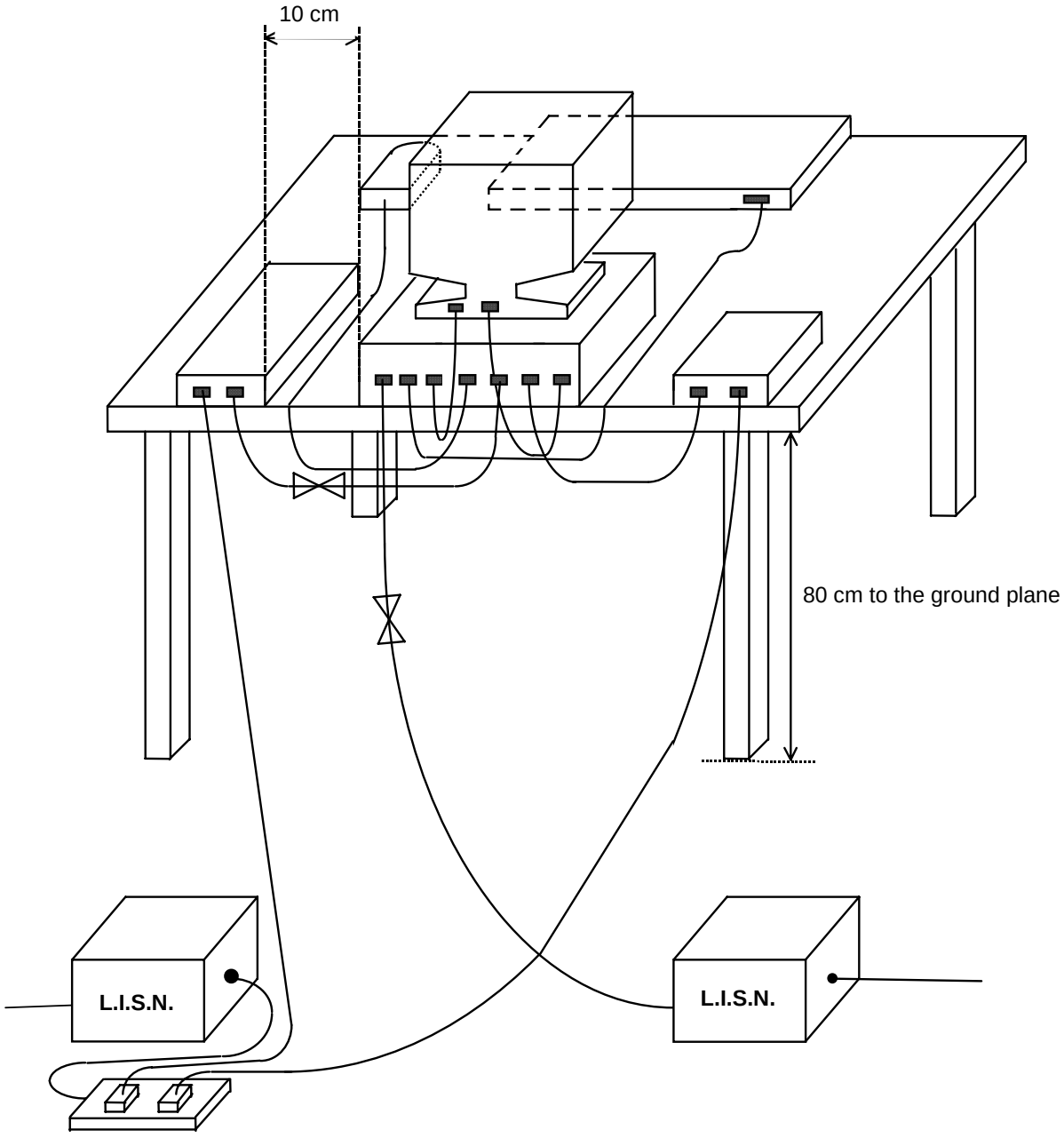
5.1 Description of Major Test Instruments

● Test Receiver	(R&S ESCS 30)
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.2 Test Procedures

a. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. Connect Telecommunication port to ISN (Impedance Stabilization Network)
d. All the support units are connect to the other LISN.
e. The LISN provides 50 ohm coupling impedance for the measuring instrument.
f. The CISPR states that a 50 ohm , 50 microhenry LISN should be used.
g. Both sides of AC line were checked for maximum conducted interference.
h. The frequency range from 150 kHz to 30 MHz was searched.
i. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.3 Typical Test Setup Layout of Conducted Power line

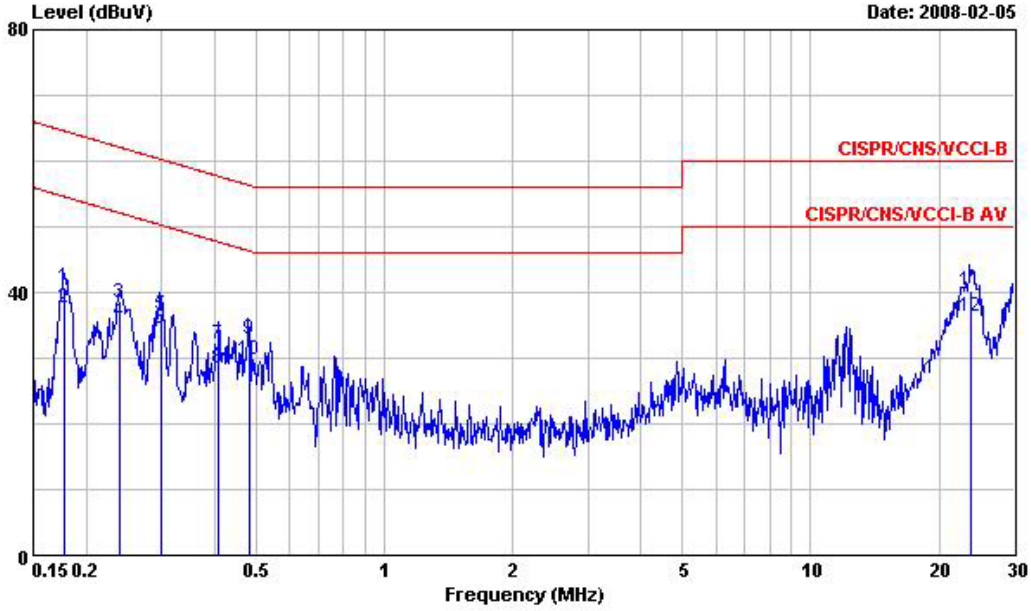


5.4 Test Result of AC Power line Conducted Emission

5.4.1 Test Mode: Mode 1 (DC 24V)

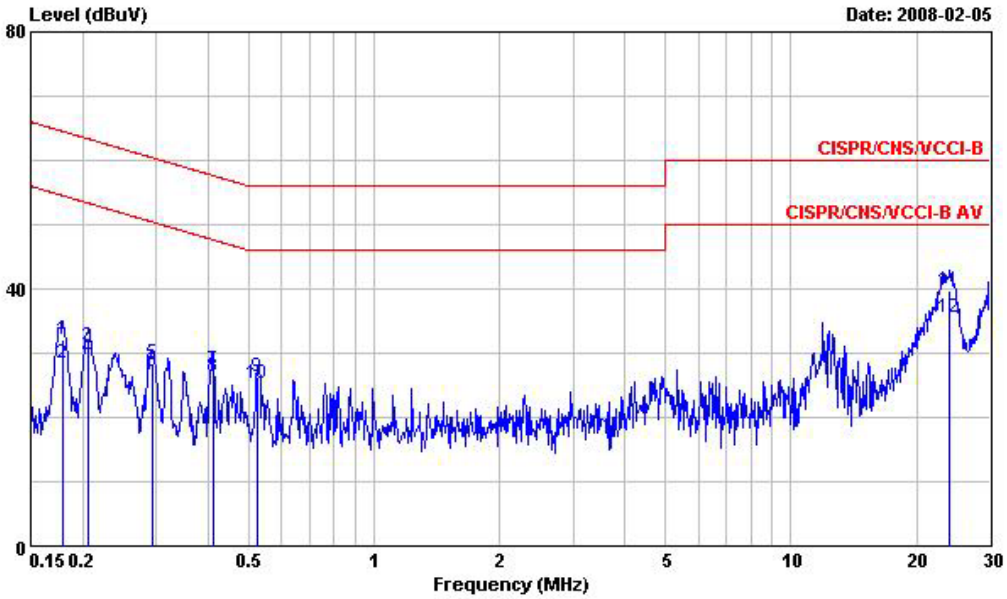
- Frequency Range of Test : from 0.15 MHz to 30 MHz
- Temperature : 25 ℃
- Relative Humidity : 55 %
- Test Engineer : Ken
- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- All emissions not reported here are more than 10 dB below the prescribed limit.

■ The test was passed at the minimum margin that marked by the frame in the following table



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B 03/10219-20040514
EUT : DC-DC Power Supply
POWER: DC 24V
Model : STC-24XXX、BES-640C
Memo : +24V
Memo : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1780560	40.80	-23.78	64.58	40.33	0.33	0.14	QP
2	0.1780560	37.62	-16.96	54.58	37.15	0.33	0.14	Average
3	0.2390820	38.35	-23.78	62.13	37.82	0.24	0.29	QP
4	0.2390820	35.51	-16.62	52.13	34.98	0.24	0.29	Average
5	0.2996650	36.56	-23.69	60.25	35.86	0.22	0.48	QP
6	0.2996650	34.43	-15.82	50.25	33.73	0.22	0.48	Average
7	0.4083060	32.09	-25.59	57.68	31.17	0.20	0.72	QP
8	0.4083060	28.47	-19.21	47.68	27.55	0.20	0.72	Average
9	0.4811990	32.86	-23.46	56.32	32.00	0.19	0.67	QP
10	0.4811990	29.64	-16.68	46.32	28.78	0.19	0.67	Average
11	23.640	40.28	-19.72	60.00	39.75	0.52	0.01	QP
12 @	23.640	36.19	-13.81	50.00	35.66	0.52	0.01	Average



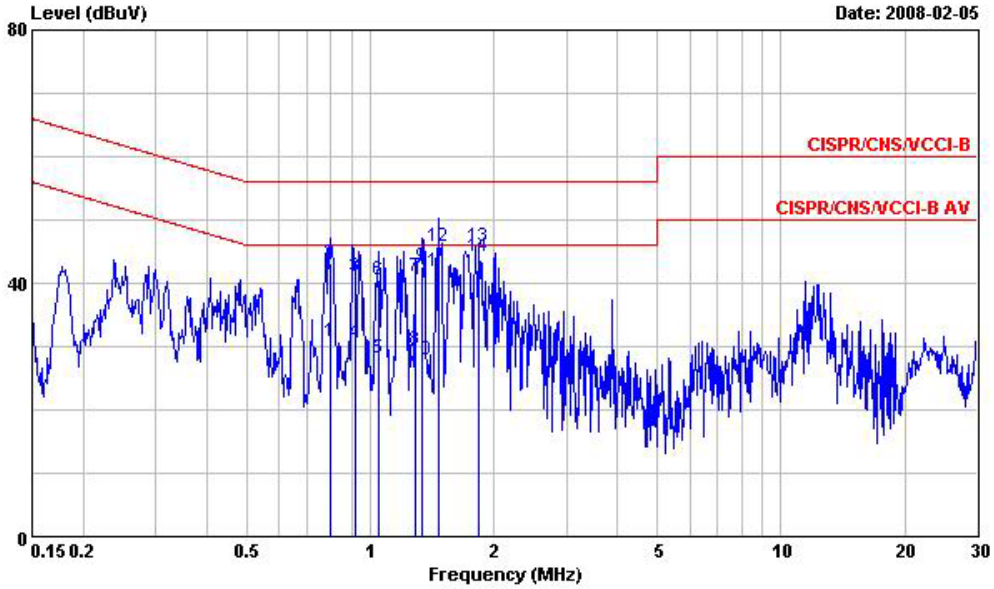
Site : CO04-HY
Condition : CISPR/CNS/VCCI-B 03/10220-20040514
EUT : DC-DC Power Supply
POWER: DC 24V
Model : STC-24XXX、BES-640C
Memo : -24V
Memo : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1786590	32.14	-32.41	64.55	31.64	0.36	0.14	QP
2	0.1786590	28.54	-26.01	54.55	28.04	0.36	0.14	Average
3	0.2061360	31.04	-32.32	63.36	30.58	0.29	0.17	QP
4	0.2061360	29.17	-24.19	53.36	28.71	0.29	0.17	Average
5	0.2939830	28.32	-32.09	60.41	27.63	0.22	0.47	QP
6	0.2939830	27.09	-23.32	50.41	26.40	0.22	0.47	Average
7	0.4104750	27.33	-30.31	57.64	26.46	0.15	0.72	QP
8	0.4104750	26.40	-21.24	47.64	25.53	0.15	0.72	Average
9	0.5263020	26.34	-29.66	56.00	25.57	0.13	0.64	QP
10	0.5263020	25.30	-20.70	46.00	24.53	0.13	0.64	Average
11	24.010	39.68	-20.32	60.00	39.23	0.44	0.01	QP
12 @	24.010	35.40	-14.60	50.00	34.95	0.44	0.01	Average

5.4.2 Test Mode: Mode 2 (DC 48V)

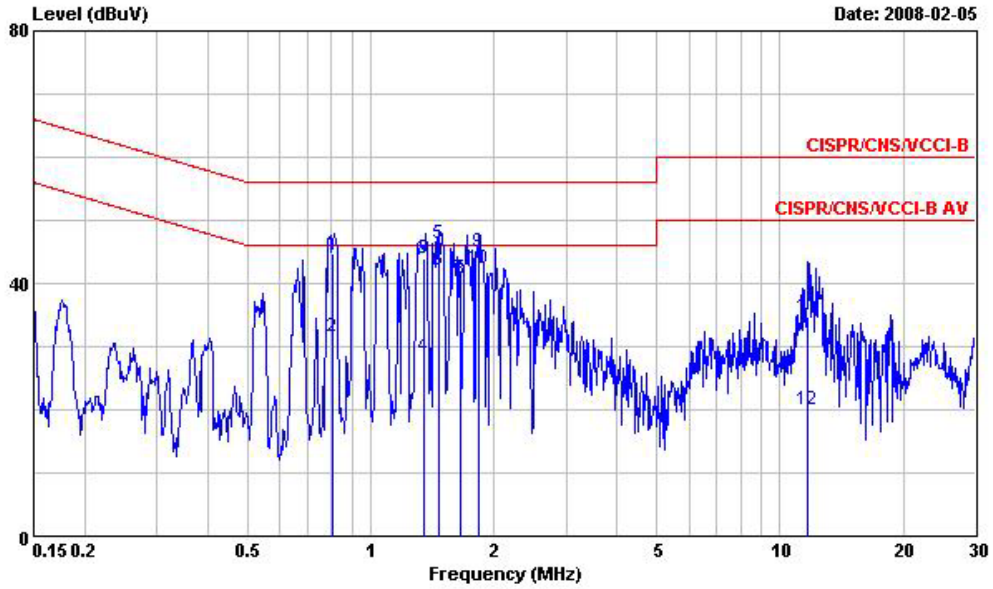
- Frequency Range of Test : from 0.15 MHz to 30 MHz
- Temperature : 25 ℃
- Relative Humidity : 55 %
- Test Engineer : Ken
- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- All emissions not reported here are more than 10 dB below the prescribed limit.

■ The test was passed at the minimum margin that marked by the frame in the following table



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B 03/10219-20040514
EUT : DC-DC Power Supply
POWER: DC 48V
Model : STC-48XXX、BES-640T
Memo : +48V
Memo : Full System

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.7989540	30.66	-15.34	46.00	29.99	0.16	0.51	Average
2	@	0.7989540	43.28	-12.72	56.00	42.61	0.16	0.51	QP
3		0.9171350	41.18	-14.82	56.00	40.56	0.15	0.47	QP
4		0.9171350	30.56	-15.44	46.00	29.94	0.15	0.47	Average
5		1.046	28.15	-17.85	46.00	27.56	0.15	0.44	Average
6		1.046	40.47	-15.53	56.00	39.88	0.15	0.44	QP
7		1.289	41.15	-14.85	56.00	40.58	0.13	0.44	QP
8		1.289	29.60	-16.40	46.00	29.03	0.13	0.44	Average
9	@	1.330	42.57	-13.43	56.00	42.00	0.13	0.44	QP
10		1.330	27.93	-18.07	46.00	27.36	0.13	0.44	Average
11	@	1.467	41.80	-4.20	46.00	41.25	0.12	0.43	Average
12	@	1.467	45.70	-10.30	56.00	45.15	0.12	0.43	QP
13	@	1.835	45.81	-10.19	56.00	45.27	0.11	0.43	QP
14	@	1.835	44.12	-1.88	46.00	43.58	0.11	0.43	Average



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B 03/10220-20040514
EUT : DC-DC Power Supply
POWER: DC 48V
Model : STC-48XXX、BES-640T
Memo : -48V
Memo : Full System

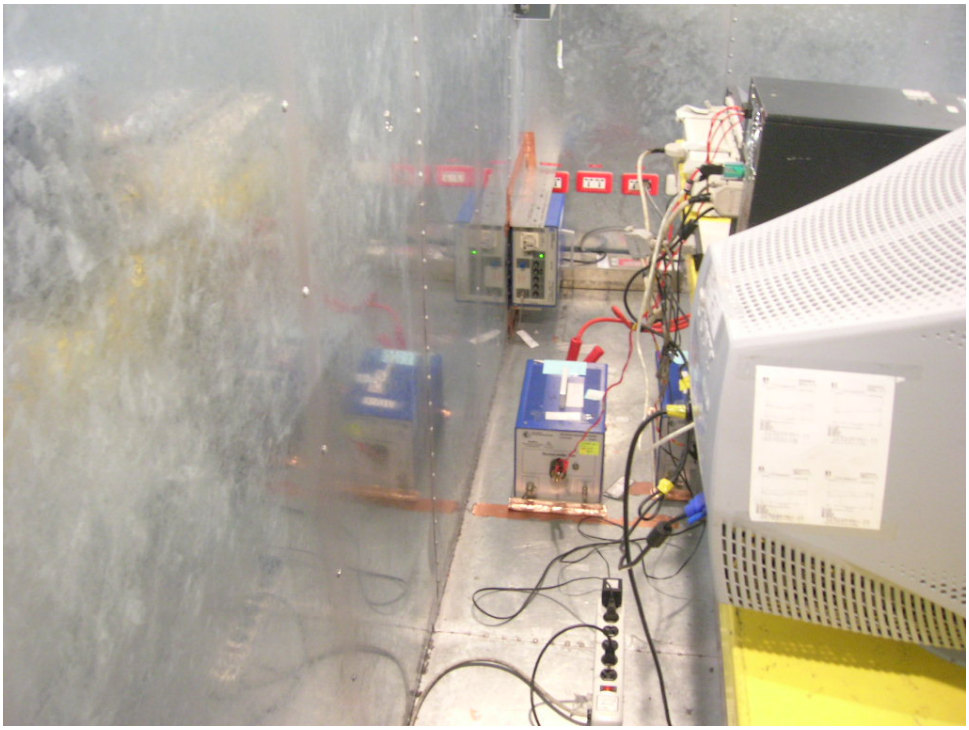
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.8066850	44.63	-11.37	56.00	44.01	0.11	0.51	QP
2	@0.8066850	31.62	-14.38	46.00	31.00	0.11	0.51	Average
3	@ 1.347	44.00	-12.00	56.00	43.46	0.10	0.44	QP
4	1.347	28.38	-17.62	46.00	27.84	0.10	0.44	Average
5	@ 1.468	46.38	-9.62	56.00	45.85	0.10	0.43	QP
6	@ 1.468	42.17	-3.83	46.00	41.64	0.10	0.43	Average
7	1.651	40.72	-15.28	56.00	40.19	0.10	0.43	QP
8	@ 1.651	40.45	-5.55	46.00	39.92	0.10	0.43	Average
9	@ 1.835	45.04	-10.96	56.00	44.51	0.10	0.43	QP
10	@ 1.835	42.25	-3.75	46.00	41.72	0.10	0.43	Average
11	11.680	34.76	-25.24	60.00	34.30	0.27	0.19	QP
12	11.680	19.99	-30.01	50.00	19.53	0.27	0.19	Average

5.5 Photographs of Conducted Power line Test Configuration

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW

REAR VIEW



6. Test of Radiated Emission mission

Radiated emissions from 30 MHz to 1000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in European Standard EN 55022, Clause 10 and AS/NZS CISPR 22. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1 Description of Major Test Instruments

● Amplifier	(Agilent 8447D)
RF Gain	25 dB
Signal Input	9 KHz to 1.3 GHz
● Spectrum Analyzer	(R&S FSP7)
Attenuation	10 dB
Start Frequency	30 MHz
Stop Frequency	1000 MHz
Resolution Bandwidth	120 KHz
Signal Input	9 KHz to 7 GHz
● Test Receiver	(R&S ESI)
Attenuation	10 dB
Start Frequency	30 MHz
Stop Frequency	1000 MHz
Resolution Bandwidth	120 KHz
Signal Input	9kHz to 2.75 GHz

6.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.

b. The EUT was set 10 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.

c. The table was rotated 360 degrees to determine the position of the highest radiation.

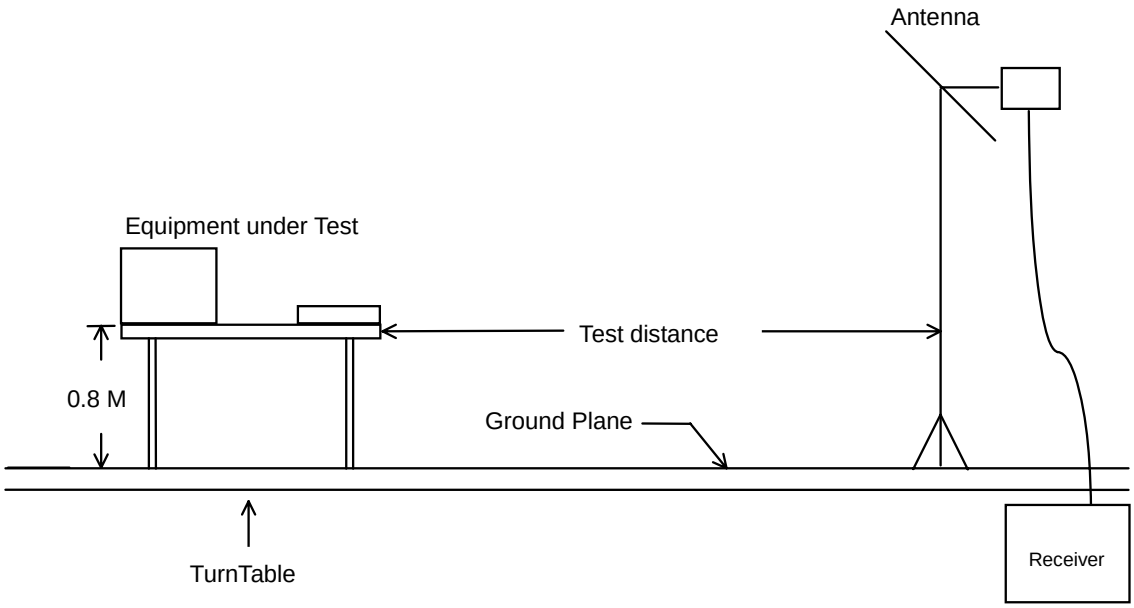
d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.

e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

6.3 Typical Test Setup Layout of Radiated Emission

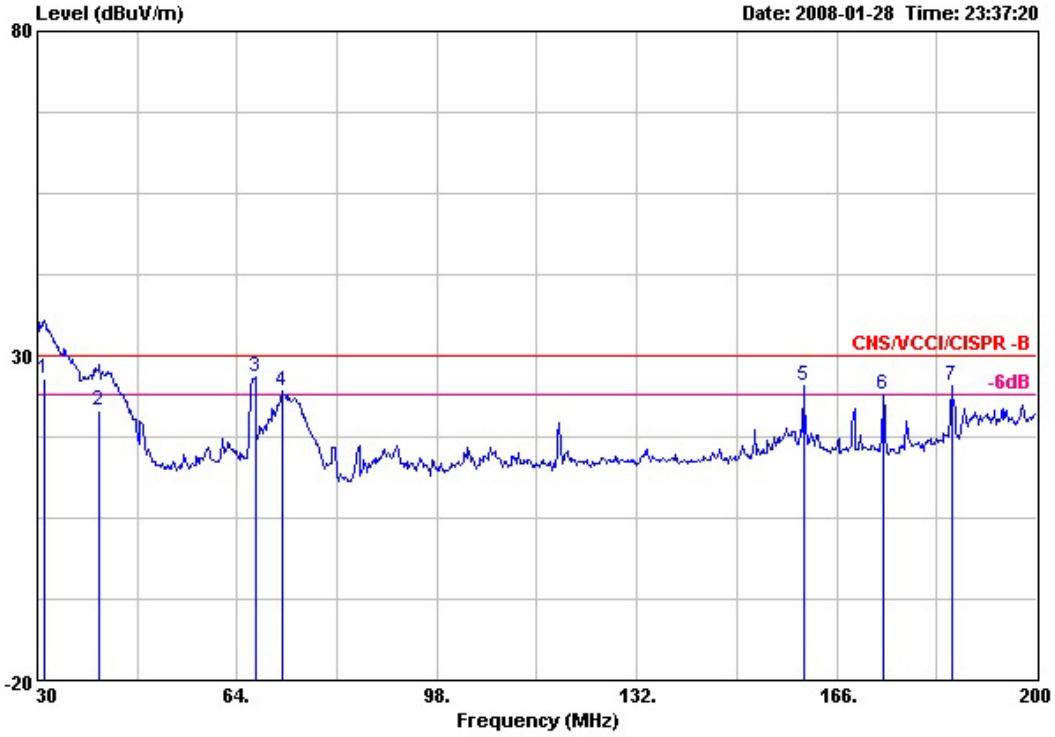


6.4 Test Result of Radiated Emission

6.4.1 Test Mode: Mode 1 (DC 24V)

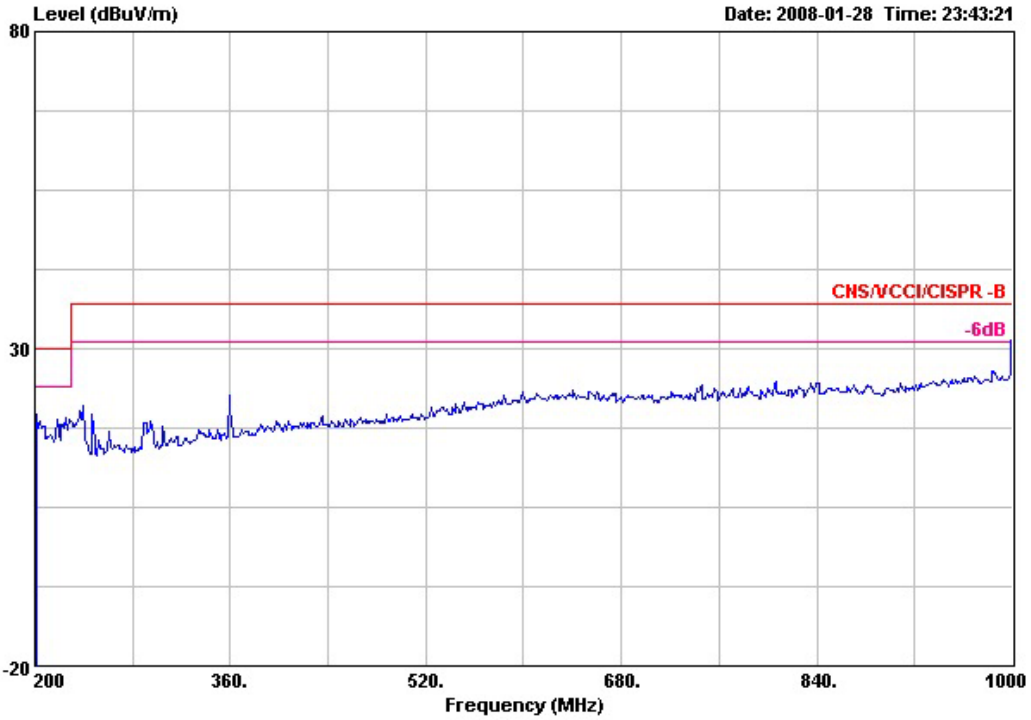
- Frequency Range of Test : from 30 MHz to 1000 MHz
- Temperature : 25 ℃
- Relative Humidity : 63 %
- Test Engineer : Nicky
- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test was passed at the minimum margin that marked by the frame in the following test record



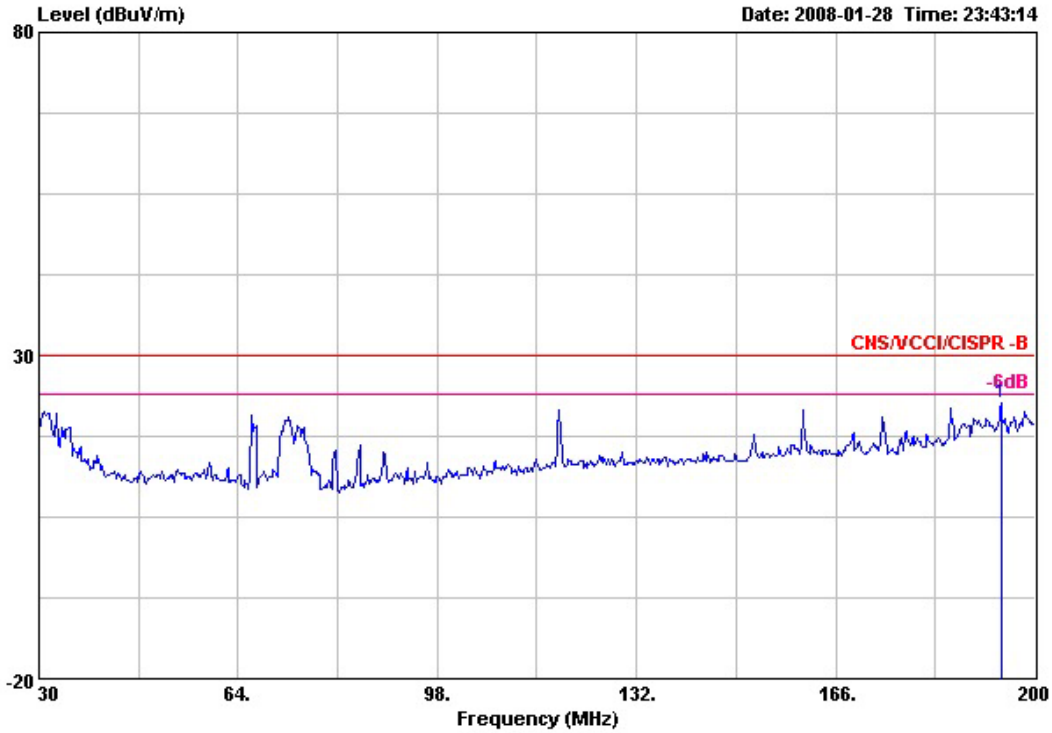
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m BICO-VHBB9124 VERTICAL
EUT : DC-DC Power Supply
POWER: DC 24V
MODEL : STC-24XXX、BES-640C
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 @	31.300	26.57	-3.43	30.00	39.91	28.35	1.53	13.48	QP	100	120
2 @	40.540	21.54	-8.46	30.00	36.98	28.32	1.64	11.24	QP	100	58
3 @	67.060	26.74	-3.26	30.00	44.05	28.27	2.02	8.94	Peak	---	---
4 @	71.820	24.63	-5.37	30.00	42.49	28.26	2.10	8.30	Peak	---	---
5 @	160.390	25.26	-4.74	30.00	36.81	27.89	3.01	13.33	Peak	---	---
6 @	173.990	23.92	-6.08	30.00	35.35	27.83	3.10	13.30	Peak	---	---
7 @	185.550	25.29	-4.71	30.00	35.59	27.77	3.18	14.29	Peak	---	---



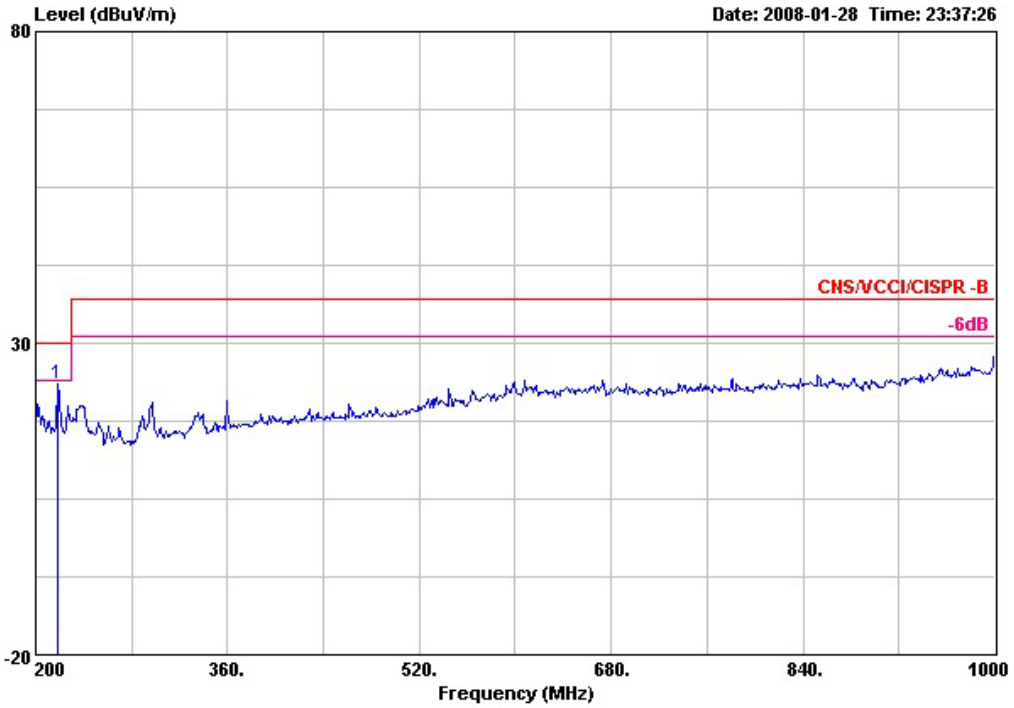
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m LOG-9111-207 VERTICAL
EUT : DC-DC Power Supply
POWER: DC 24V
MODEL : STC-24XXX、BES-640C
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	201.600	19.64	-10.36	30.00	29.14	27.69	3.00	15.19	Peak	---	---



Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m BICO-VHBB9124 HORIZONTAL
EUT : DC-DC Power Supply
POWER: DC 24V
MODEL : STC-24XXX、BES-640C
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 @	194.220	22.68	-7.32	30.00	32.25	27.73	3.23	14.93	Peak	---	---



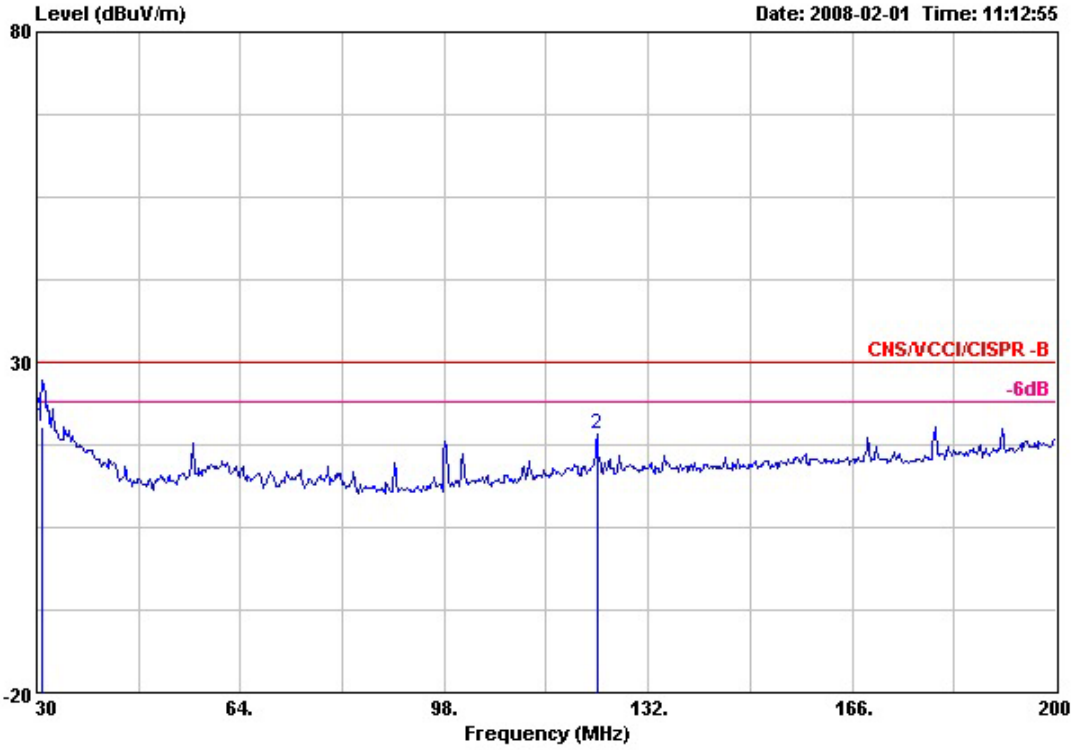
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m LOG-9111-207 HORIZONTAL
EUT : DC-DC Power Supply
POWER: DC 24V
MODEL : STC-24XXX、BES-640C
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 @	218.400	23.40	-6.60	30.00	33.44	27.60	3.27	14.29	Peak	---	---

6.4.2 Test Mode: Mode 2 (DC 48V)

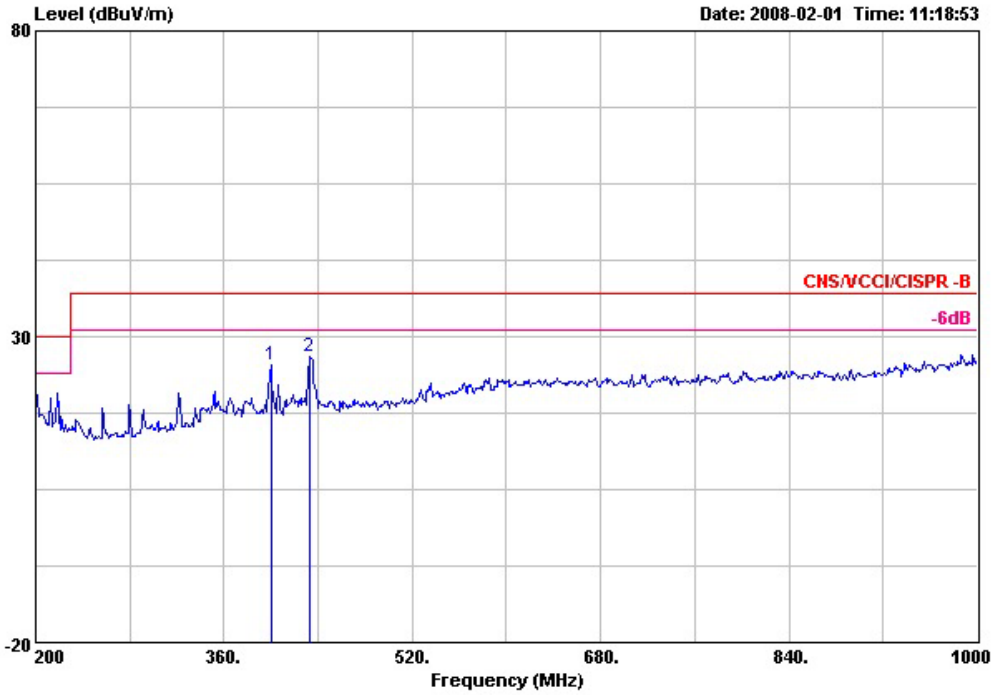
- Frequency Range of Test : from 30 MHz to 1000 MHz
- Temperature : 25 ℃
- Relative Humidity : 63 %
- Test Engineer : Nicky
- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

The test was passed at the minimum margin that marked by the frame in the following test record



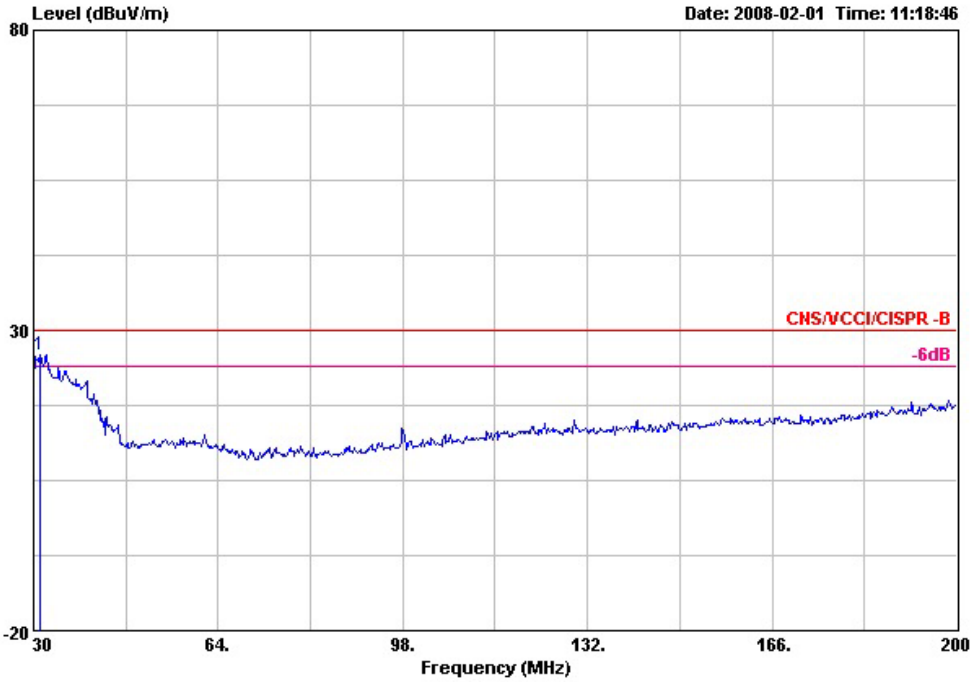
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m BICO-VHBB9124 VERTICAL
EUT : DC-DC Power Supply
POWER: DC 48V
MODEL : STC-48XXX、BES-640T
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 @	31.020	20.34	-9.66	30.00	33.56	28.35	1.53	13.60	QP	100	360
2	123.500	19.16	-10.84	30.00	32.60	28.08	2.70	11.94	Peak	---	---



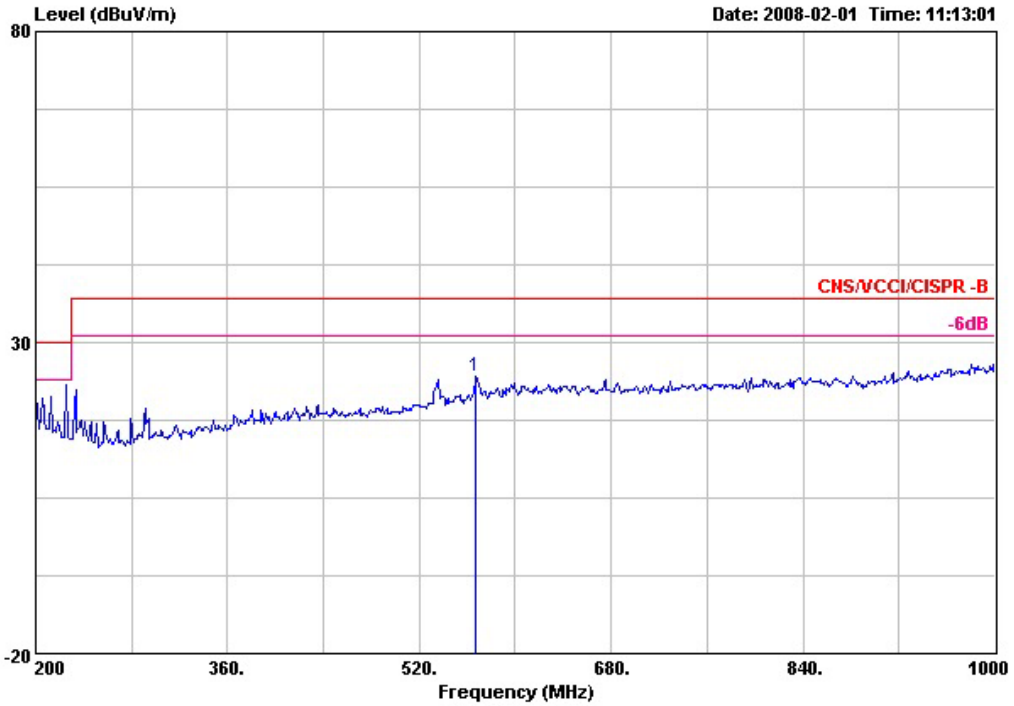
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m LOG-9111-207 VERTICAL
EUT : DC-DC Power Supply
POWER: DC 48V
MODEL : STC-48XXX、BES-640T
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	400.000	25.28	-11.72	37.00	33.29	28.00	4.02	15.97	Peak	---	---
2 @	432.800	26.69	-10.31	37.00	34.37	28.27	4.15	16.44	Peak	---	---



Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m BICO-VHBB9124 HORIZONTAL
EUT : DC-DC Power Supply
POWER: DC 48V
MODEL : STC-48XXX、BES-640T
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1 @	31.190	25.83	-4.17	30.00	39.11	28.35	1.53	13.54	Peak	---	---



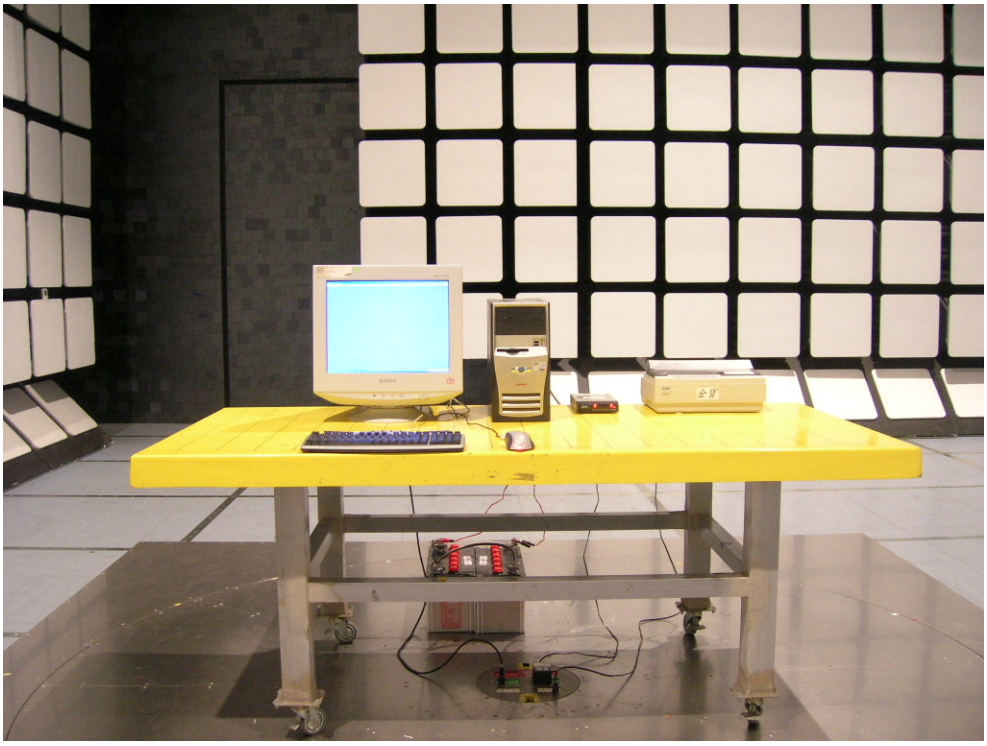
Site : 10CH02-HY
Condition : CNS/VCCI/CISPR -B 10m LOG-9111-207 HORIZONTAL
EUT : DC-DC Power Supply
POWER: DC 48V
MODEL : STC-48XXX、BES-640T
MEMO : Full System

	Freq	Level	Over Limit	Limit Line	Read Level	Preamp Factor	Cable Loss	Antenna Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		cm	deg
1	567.200	24.58	-12.42	37.00	29.26	28.73	4.60	19.45	Peak	---	---

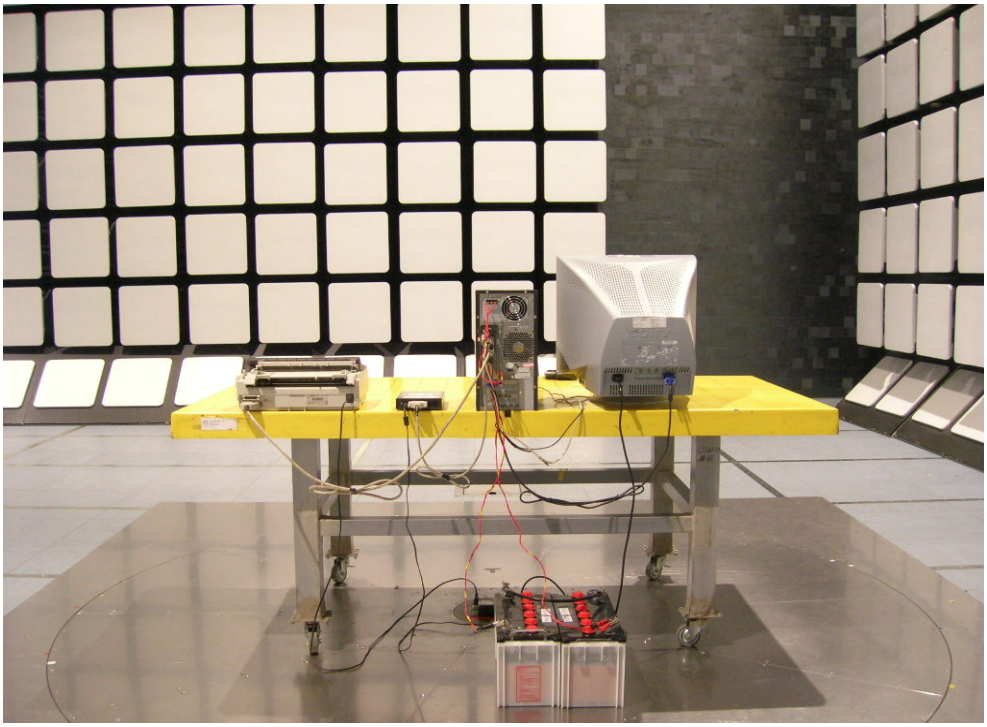
6.5 Photographs of Radiated Emission Test Configuration

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW



REAR VIEW



7. Harmonics Test

The power supply of this EUT is DC voltage.

Harmonics test is not applicable for this EUT.

8. Voltage Fluctuations Test

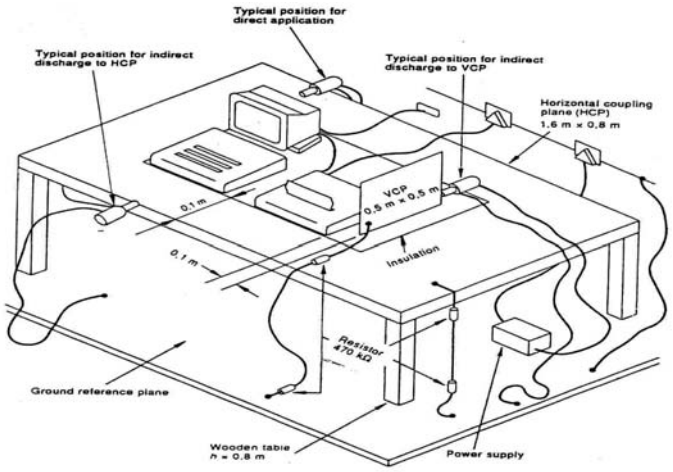
The power supply of this EUT is DC voltage.

Voltage Fluctuations is not applicable for this EUT.

9. Electrostatic Discharge Immunity Test (ESD)

- FINAL TEST RESULT : ***PASS***
- Pass Performance Criteria : A
- Required Performance Criteria : B
- Basic Standard : IEC 61000-4-2:1995/A2:2000
- Product Standard : EN 55024:1998/A1:2001/A2:2003
- Level : 3 for air discharge
  2 for contact discharge
- Test Voltage : ±2 / ±4 / ±8 KV for air discharge
  ±2 / ±4 KV for contact discharge
- Temperature : 25℃
- Relative Humidity : 50%
- Atmospheric Pressure : 100 kPa
- Test Date : Feb. 04, 2008
- Test Mode : Mode 1, Mode 2
- Test Engineer : Mars
- Observation : The EUT has no on slots, apertures, or insulating surfaces. So the air discharge test is not applicable.

9.1 Test Setup


Typical position for direct application
Typical position for indirect discharge to HCP
Typical position for indirect discharge to VCP
Horizontal coupling plane (HCP) 1.6 m × 0.8 m
VCP 0.5 m × 0.5 m
0.1 m
0.1 m
Insulation
Resistor 470 kΩ
Ground reference plane
Wooden table h = 0.8 m
Power supply

The test setup consists of the test generator, EUT and auxiliary instrumentation necessary to perform DIRECT and INDIRECT application of discharges to the EUT as applicable, in the follow manner :

a. CONTACT DISCHARGE to the conductive surfaces and to coupling plane;
b. AIR DISCHARGE at insulating surfaces.

The preferred test method is that of type tests performed in laboratories and the only accepted method of demonstrating conformance with this standard. The EUT was arranged as closely as possible to arrangement in final installed conditions.

9.2 Test Setup for Tests Performed in Laboratory

A ground reference plane was provided on the floor of the test site. It was a metallic sheet (copper or aluminum) of 0.25 mm, minimum thickness; other metallic may be used but they shall have at least 0.65 mm thickness. In the SPORTON EMC LAB., we provided 1 mm thickness aluminum ground reference plane or 1 mm thickness stainless steel ground reference plane. The minimum size of the ground reference plane is 1 m x 1 m, the exact size depending on the dimensions of the EUT. It was connected to the protective grounding system.

The EUT was arranged and connected according to its functional requirements. A distance of 1m minimum was provided between the EUT and the wall of the lab. and any other metallic structure. In cases where this length exceeds the length necessary to apply the discharges to the selected points, the excess length shall, where possible, be placed non-inductively off the ground reference plane and shall not come closer than 0.2m to other conductive parts in the test setup.

Where the EUT is installed on a metal table, the table was connected to the reference plane via a cable with a 470k ohm resister located at each end, to prevent a build-up of charge. The test setup was consist a wooden table, 0.8m high, standing on the ground reference plane. A HCP, 1.6 m x 0.8 m, was placed on the table. The EUT and cables was isolated from the HCP by an insulating support 0.5 mm thick. The VCP size, 0.5 m x 0.5 m.

9.3 ESD Test Procedure

a. In the case of air discharge testing the climatic conditions shall be within the following ranges:

- ambient temperature: 15℃ to 35℃;
- relative humidity : 30% to 60%;
- atmospheric pressure : 86 kPa (860 mbar) to 106 kPa (1060 mbar).

b. Test programs and software shall be chosen so as to exercise all normal modes of operation of the EUT. The use of special exercising software is encouraged, but permitted only where it can be shown that the EUT is being comprehensively exercised.

c. The test voltage shall be increased from the minimum to the selected test severity level, in order to determine any threshold of failure. The final severity level should not exceed the product specification value in order to avoid damage to the equipment.

d. The test shall be performed with both air discharge and contact discharge. On preselected points at least 10 single discharges (in the most sensitive polarity) shall be applied on air discharge. On preselected points at least 25 single discharges (in the most sensitive polarity) shall be applied on contact discharge.

e. For the time interval between successive single discharges an initial value of one second is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.

f. In the case of contact discharges, the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

g. In the case of painted surface covering a conducting substrate, the following procedure shall be adopted :

- If the coating is not declared to be an insulating coating by the equipment manufacturer, then the pointed tip of the generator shall penetrate the coating so as to make contact with the conducting substrate.
- Coating declared as insulating by the manufacturer shall only be submitted to the air discharge.
- The contact discharge test shall not be applied to such surfaces.

h. In the case of air discharges, the round discharge tip of the discharge electrode shall be approached as fast as possible (without causing mechanical damage) to touch the EUT . After each discharge, the ESD generator (discharge electrode) shall be removed from the EUT. The generator is then retriggered for a new single discharge. This procedure shall be repeated until the discharges are completed. In the case of an air discharge test, the discharge switch, which is used for contact discharge, shall be closed.

9.4 Test Severity Levels

9.4.1 Contact Discharge

Level	Test Voltage (KV) of Contact discharge
1	±2
2	±4
3	±6
4	±8
X	Specified

Remark : “X” is an open level.

9.4.2 Air Discharge

Level	Test Voltage (KV) of Air Discharge
1	±2
2	±4
3	±8
4	±15
X	Specified

Remark : “X” is an open level.

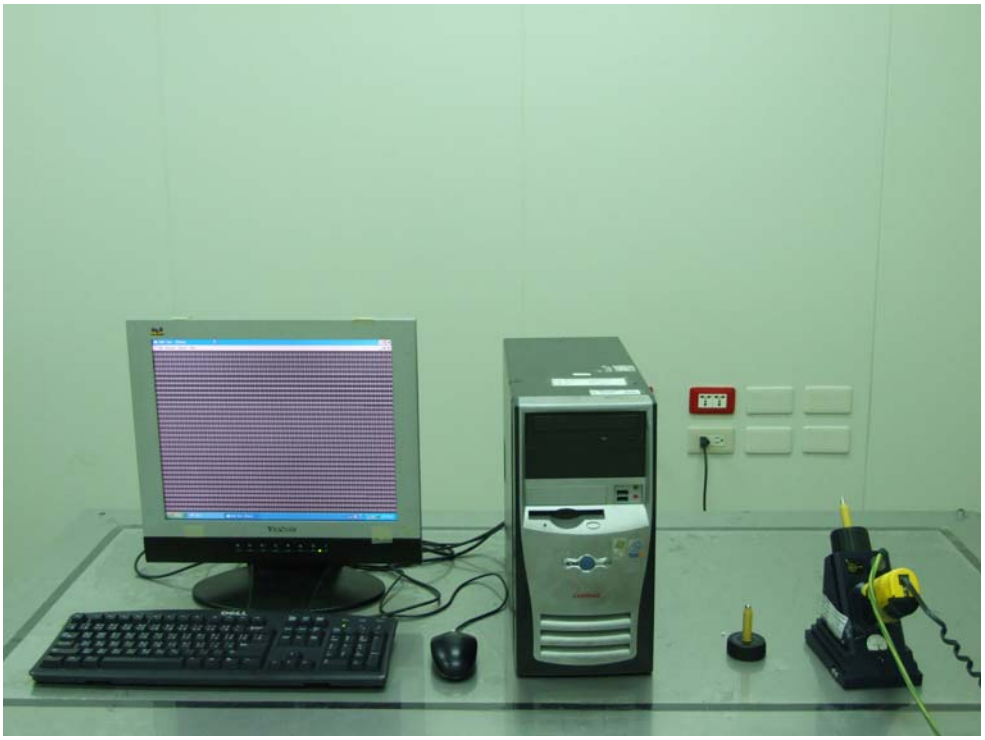
9.5 Test Points

9.5.1 Test Result of Contact Discharge

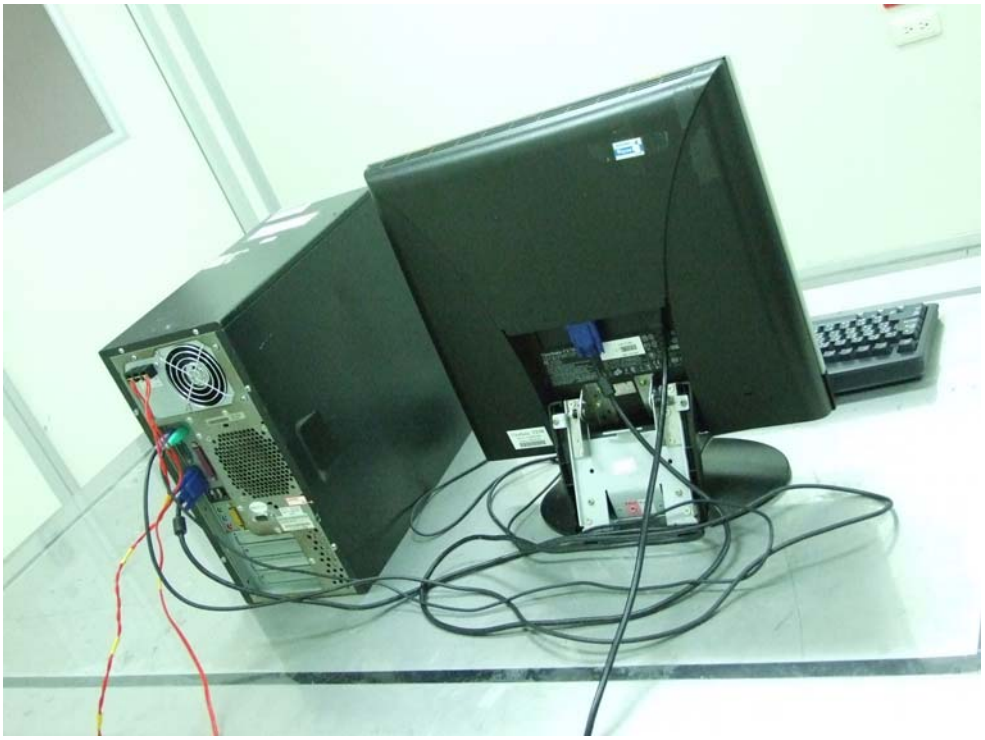
Test Point	Voltage	Tested No.
HCP (At Front)	±2 / ±4 KV	BY 25
HCP (At Left)	±2 / ±4 KV	BY 25
HCP (At Right)	±2 / ±4 KV	BY 25
HCP (At Rear)	±2 / ±4 KV	BY 25
VCP (At Front)	±2 / ±4 KV	BY 25
VCP (At Left)	±2 / ±4 KV	BY 25
VCP (At Right)	±2 / ±4 KV	BY 25
VCP (At Rear)	±2 / ±4 KV	BY 25
Case	±2 / ±4 KV	BY 25
Screw	±2 / ±4 KV	BY 25

9.6 Photographs of Electrostatic Discharge Immunity Test

FRONT VIEW



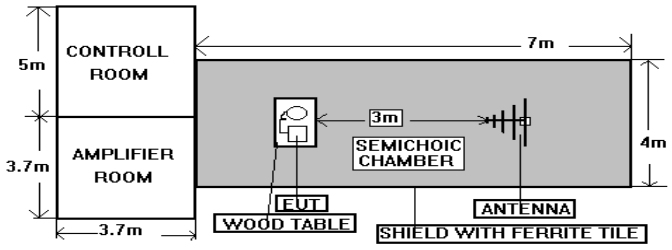
REAR VIEW



10. Radio Frequency Electromagnetic Field Immunity Test (RS)

- FINAL TEST RESULT : ***PASS***
- Pass Performance Criteria : A
- Required Performance Criteria : A
- Basic Standard : IEC 61000-4-3:1995/A2:2002
- Product Standard : EN 55024:1998/A1:2001/A2:2003
- Level : 2
- Frequency Range : 80-1000 MHz
- Field Strength : 3 V/m (Modulated 80% AM)
- Temperature : 24 ℃
- Relative Humidity : 51 %
- Atmospheric Pressure : 100 kPa
- Test Date : Feb. 04, 2008
- Test Mode : Mode 1, Mode 2
- Test Engineer : Mars
- Observation : Normal

10.1 Test Setup



NOTE : The SPORTON 7m x 4m x 4m semichoic chamber is compliance with the sixteen points uniform field requirement as stated in IEC 1000-4-3 Section 6.2.

The procedure defined in this part requires the generation of electromagnetic fields within which the test sample is placed and its operation observed. To generate fields that are useful for simulation of actual (field) conditions may require significant antenna drive power and the resultant high field strength levels. To comply with local regulations and to prevent biological hazards to the testing personnel, it is recommended that these tests be carried out in a shielded enclosure or semichoic chamber.

10.2 Test Procedure

a. The equipment to be tested is placed in the center of the enclosure on a wooden table. The equipment is then connected to power and signal leads according to pertinent installation instructions.

b. The bilog antenna which is enabling the complete frequency range of 80-1000 MHz is placed 3m away from the equipment. The required field strength is determined by placing the field strength meter(s) on top of or directly alongside the equipment under test and monitoring the field strength meter via a remote field strength indicator outside the enclosure while adjusting the continuous-wave to the applicable antennae.

c. The test is normally performed with the generating antenna facing each of four sides of the EUT. The polarization of the field generated by the broadband (bilog) antenna necessitates testing each position twice, once with the antenna positioned vertically and again with the antenna positioned horizontally.

d. At each of the above conditions, the frequency range is swept 80-1000 MHz, pausing to adjust the R.F. signal level or to switch oscillators and antenna. The rate of sweep is in the order of $1.5*10^{-3}$ decades/s. The sensitive frequencies or frequencies of dominant interest may be discretely analyzed.

10.3 Test Severity Levels

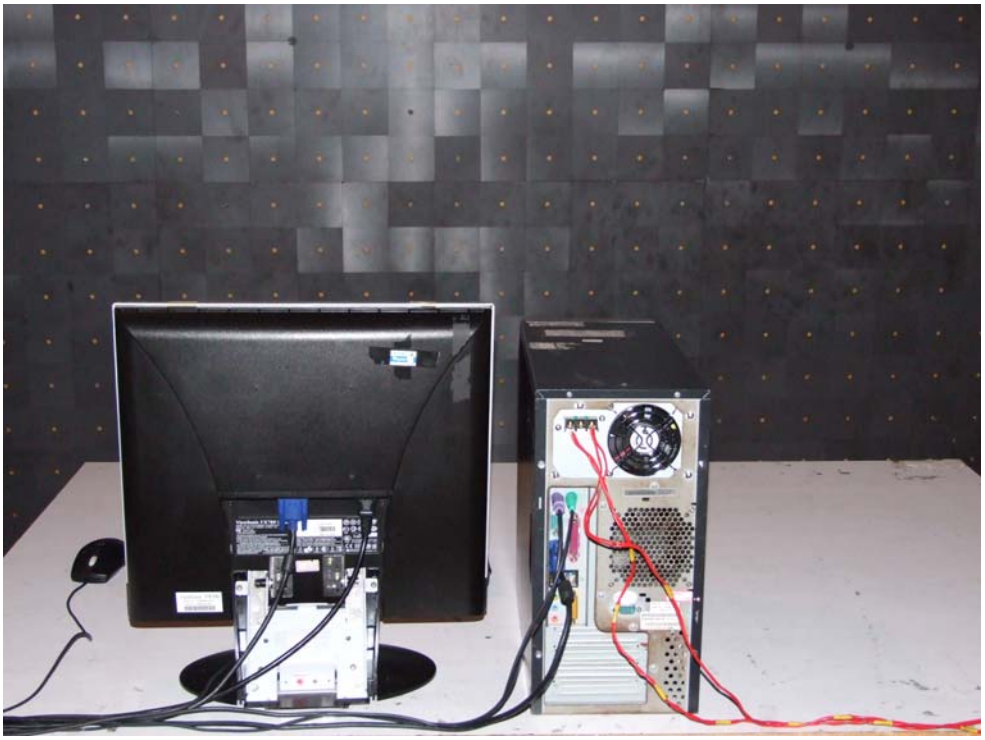
Frequency Band : 80-1000 MHz

Level	Test field strength (V/m)
1	1
2	3
3	10
X	Specified

Remark : “X” is an open class.

10.4 Photographs of Radio Frequency Electromagnetic Field Immunity Test

FRONT VIEW

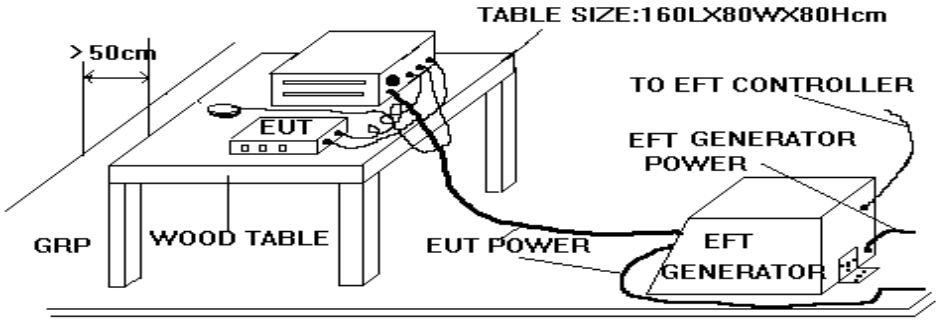


REAR VIEW

11. Electrical Fast Transient/Burst Immunity Test (EFT/BURST)

- FINAL TEST RESULT : ***PASS***
- Pass Performance Criteria : A
- Required Performance Criteria : B
- Basic Standard : IEC 61000-4-4:1995/A2:2001
- Product Standard : EN 55024:1998/A1:2001/A2:2003
- Level : on Power Supply -- 1
- Test Voltage : on Power Supply -- ±0.5 KV
- Temperature : 24 ℃
- Relative Humidity : 52 %
- Atmospheric Pressure : 100 kPa
- Test Date : Feb. 04, 2008
- Test Mode : Mode 1, Mode 2
- Test Engineer : Mars
- Observation : Normal

11.1 Test Setup



The EUT was placed on a ground reference plane and was insulated from it by an insulating support about 0.1m thick. If the EUT is table-top equipment, it was located approximately 0.8m above the GRP.. The GRP. was a metallic sheet (copper or aluminum) of 0.25 mm ,minimum thickness; other metallic may be used but they shall have at least 0.65 mm thickness. It shall project beyond the EUT by at least 0.1m on all sides and connected to the protective earth. In the SPORTON EMC LAB. we provided 1 mm thickness aluminum ground reference plane or 1 mm thickness stainless steel ground reference plane. The minimum size of the ground reference plane is 1 m x 1 m, the exact size depending on the dimensions of the EUT. It was connected to the protective grounding system. The EUT was arranged and connected according to its functional requirements. The minimum distance between the EUT and other conductive structures, except the GRP. beneath the EUT, was more than 0.5 m. Using the coupling clamp, the minimum distance between the coupling plates and all other conductive structures, except the GRP. beneath the EUT, was more than 0.5 m. The length of the signal and power lines between the coupling device and the EUT was 1m or less.

11.2 Test on Power Line

a. The EFT/B-generator was located on the GRP.. The length from the EFT/B-generator to the EUT as not exceed 1 m.

b. The EFT/B-generator provides the ability to apply the test voltage in a non-symmetrical condition to the power supply input terminals of the EUT.

11.3 Test on Communication Lines

a. The coupling clamp is composed of a clamp unit for housing the cable (length more than 3 m), and was placed on the GRP..

b. The coupling clamp provides the ability of coupling the fast transient/bursts to the cable under test.

11.4 Test Procedure

a. In order to minimize the effect of environmental parameters on test results, the climatic conditions when test is carrying out shall comply with the following requirements:

- ambient temperature: 15℃ to 35℃;
- relative humidity : 45% to 75%;
- atmospheric pressure : 86 kPa **(**860 mbar**)** to 106 kPa (1060 mbar).

b. In order to minimize the effect of environmental parameters on test results, the electromagnetic environment of the laboratory shall not influence the test results.

c. The variety and diversity of equipment and systems to be tested make it difficult to establish general criteria for the evaluation of the effects of fast transients/bursts on equipment and systems.

d. The test results may be classified on the basic of the operating conditions and the functional specification of the equipment under test, according to the following performance criteria :

- Normal performance within the specification limits.
- Temporary degradation or loss of function or performance which is self-recoverable.
- Temporary degradation or loss of function or performance which requires operator intervention or system reset.
- Degradation or loss of function which is not recoverable due to damage of equipment (components).

11.5 Test Severity Levels

The following test severity levels are recommended for the fast transient/burst test :

Open circuit output test voltage ± 10%		
Level	On Power Supply	On I/O signal, data and control line
1	0.5 KV	0.25 KV
2	1.0 KV	0.50 KV
3	2.0 KV	1.00 KV
4	4.0 KV	2.00 KV
X	Specified	Specified

Remark : " X " is an open level. The level is subject to negotiation between the user and the manufacturer or is specified by the manufacturer.

11.6 Photographs of Electrical Fast Transient/Burst Immunity Test

FRONT VIEW

REAR VIEW

12. Surge Immunity Test

The power supply of this EUT is DC voltage.

SURGE Immunity tests is not applicable for this EUT.

13. Conducted Disturbances Induced by Radio-Frequency Field Immunity Test (CS)

- FINAL TEST RESULT : ***PASS***
- Pass Performance Criteria : A
- Required Performance Criteria : A
- Basic Standard : IEC 61000-4-6:1996/A1:2000
- Product Standard : EN 55024:1998/A1:2001/A2:2003
- Level : 2
- Test Voltage : 3 V/rms (Modulated, 1KHz, 80%, AM)
- Frequency Range : 0.15 MHz to 80 MHz
- Test Port : on DC Power
- Dwell Time : 2.9 seconds
- Frequency Step Size : 1 %
- Coupling Mode : M16SWM2 for DC power ports
- Temperature : 24 ℃
- Relative Humidity : 53 %
- Atmospheric Pressure : 100 kPa
- Test Date : Feb. 04, 2008
- Test Mode : Mode 1, Mode 2
- Test Engineer : Mars
- Observation : Normal

13.1 Test Level

Level	Voltage Level (EMF),
1	1 V
2	3 V
3	10 V
x	Specified
NOTE - x is an open class. This level can be specified in the product specification.	

13.2 Operating Condition

Minimal system

13.3 Test Procedure

a. The EUT shall be operated within its intended climatic conditions. The temperature and relative humidity should be recorded.

b. This test method test can be performed without using a sell shielded enclosure. This is because the disturbance levels applied and the geometry of the setups are not likely to radiated a high amount of energy, especially at the lower frequencies. If under certain circumstances the radiated energy is too high, a shielded enclosure has to be used.

c. The test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn while the other non-excited RF-input ports of the coupling devices are terminated by a 50 ohm load resistor.

d. The frequency range is swept from 150 KHz to 80 MHz, using the signal levels established during the setting process, and with the disturbance signal 80% amplitude modulated with a 1KHz sinewave, pausing to adjust the RF-signal level or to switch coupling devices as necessary. The rate of sweep shall no exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall no exceed 1% of the start and thereafter 1% of the preceding frequency value.

e. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies e.g. clock frequency(ies) and harmonics or frequencies of dominant interest shall be analyzed separately.

f. An alternative test procedure may be adopted, wherein the frequency range is swept incrementally, with a step size not exceeding 4% of the start ad thereafter 4% of the preceding frequency value. The test level should be at least twice the value of the specified test level.

g. In cases of dispute, the test procedure using a step size not exceeding 1% of the start and thereafter 1% of preceding frequency value shall take precedence.

h. Attempts should be made to fully exercise the EUT during testing, and to fully interrogate all exercise modes selected for susceptibility.

i. The use of special exercising programs is recommended.

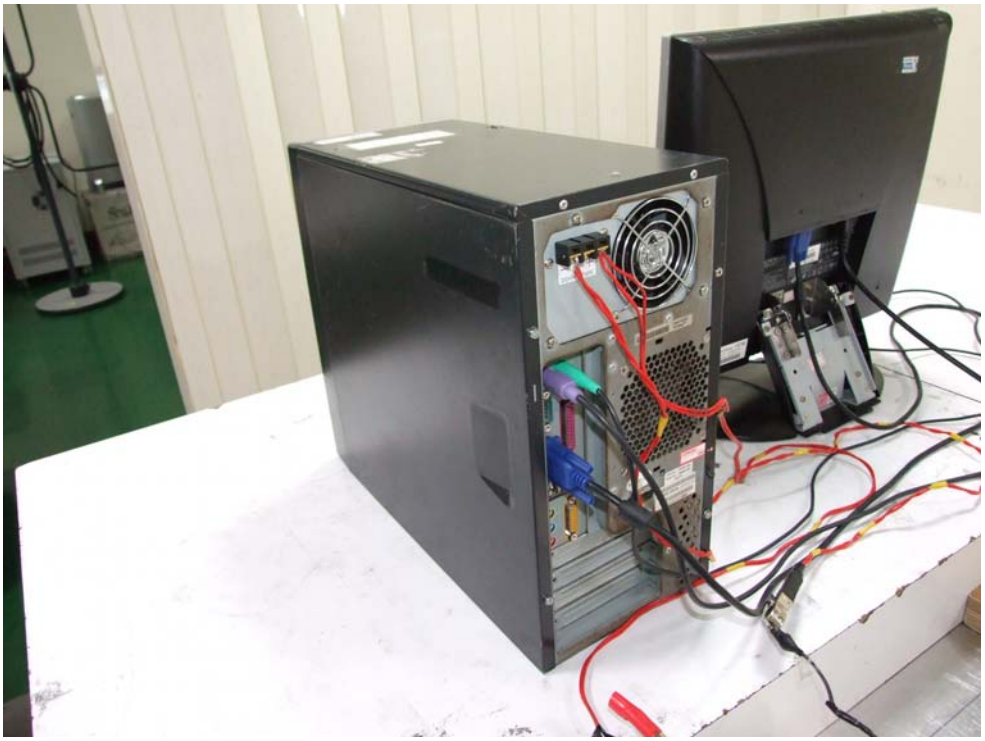
j. Testing shall be performed according to a Test Plan, which shall be included in the test report.

k. It may be necessary to carry out some investigatory testing in order to establish some aspects of the test plan.

13.4 Photographs of CS Test

FRONT VIEW

REAR VIEW



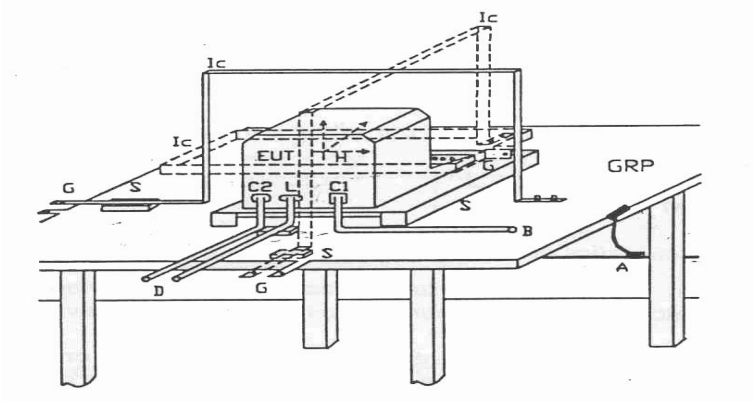
14. Power Frequency Magnetic Field immunity tests

- FINAL TEST RESULT : ***PASS***
- Pass Performance Criteria : A
- Required Performance Criteria : A
- Basic Standard : IEC 61000-4-8:1993/A1:2000
- Product Standard : EN 55024:1998/A1:2001/A2:2003
- Temperature : 24 ℃
- Relative Humidity : 53 %
- Atmospheric Pressure : 100 kPa
- Test Date : Feb. 04, 2008
- Test Mode : Mode 1, Mode 2
- Test Engineer : Mars
- Observation : Normal

14.1 Test Record

Power Frequency Magnetic Field	Testing duration	Coil Orientation	Results	Remark
50Hz, 1A/m	1.0 Min	X-axis	Pass	Normal
50Hz, 1A/m	1.0 Min	Y-axis	Pass	Normal
50Hz, 1A/m	1.0 Min	Z-axis	Pass	Normal

14.2 Test Setup

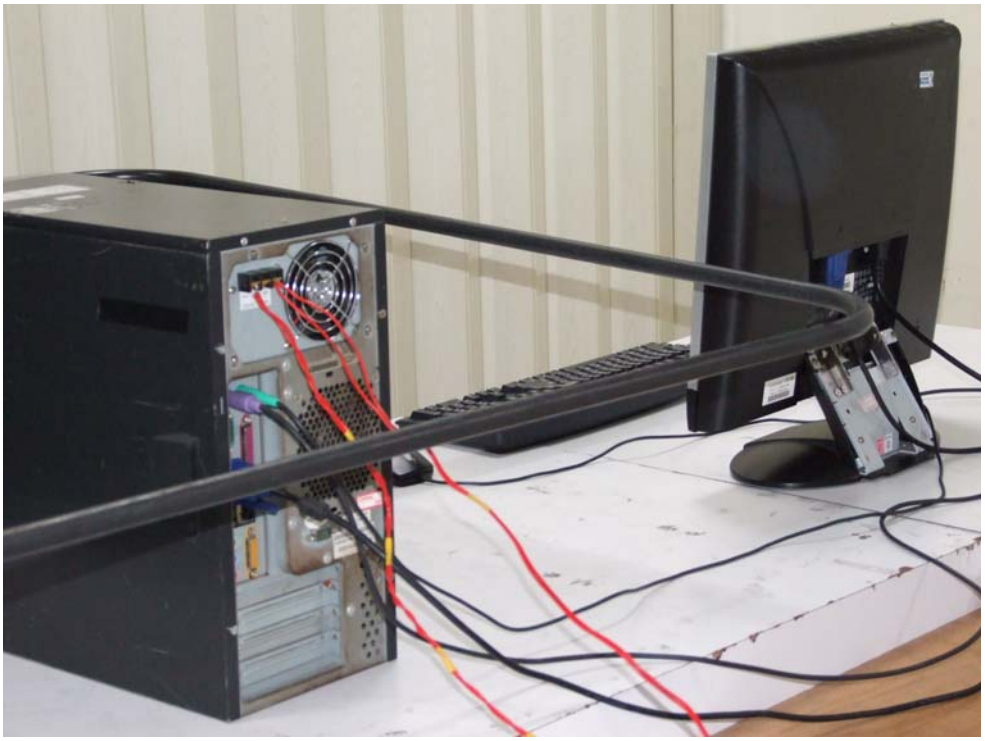


GRP : Ground plane
A : Safety earth
S : Insulating support
EUT : Equipment under test
Lc : Induction coil
E : Earth terminal
C1 : Power supply circuit
C2 : Signal circuit
L : Communication line
B : To power supply source
D : To signal source, simulator
G : To the test generator

14.3 Photographs of Power Frequency Magnetic Field immunity tests

FRONT VIEW

REAR VIEW



15. Voltage Dips and Voltage Interruption Immunity Tests

The power supply of this EUT is DC voltage.

Voltage Dips and Voltage Interruptions Immunity tests is not applicable for this EUT.

16. List of Measuring Equipment Used

< EMI >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2007	Conduction (CO04-HY)
DC LISN	ROIF HEINE	LN-KFZ/200	03/10219	100kHz – 108MHz	May 23, 2007	Conduction (CO04-HY)
DC LISN	ROIF HEINE	LN-KFZ/200	03/10220	100kHz – 108MHz	May 23, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
10m Semi Anechoic Chamber	TDK	SAC-10M	10CH02-HY	30MHz~1GHz 10m,3m	Mar. 04, 2007	Radiation (10CH02-HY)
Spectrum Analyzer	R&S	FSP7	100645	9KHz – 7GHz	Jun. 15, 2007	Radiation (10CH02-HY)
Receiver	R&S	ESI	1008	20Hz - 7GHz	May 09, 2007	Radiation (10CH02-HY)
Amplifier	Agilent	8447D	2944A10827	100KHz – 1.3GHz	Jun. 28, 2007	Radiation (10CH02-HY)
Amplifier	Agilent	8447D	2944A10828	100KHz – 1.3GHz	Jun. 28, 2007	Radiation (10CH02-HY)
Biconical Antenna	Schwarzbeck	VHBB 9124	287	30MHz –200MHz	Dec. 22, 2007	Radiation (10CH02-HY)
Log Antenna	Schwarzbeck	VUSLP 9111	207	200MHz -1GHz	Dec. 22, 2007	Radiation (10CH02-HY)
Turn Table	HD	DS 430	430/360	0 ~ 360 degree	N/A	Radiation (10CH02-HY)
Antenna Mast	HD	MA240	240/664	1 m - 4 m	N/A	Radiation (10CH02-HY)
Antenna Mast	HD	MA240	240/667	1 m - 4 m	N/A	Radiation (10CH02-HY)
RF Cable-R10m	Jye Bao	RG142	CB027-INSIDE	30MHz~1GHz	Nov. 30, 2007	Radiation (10CH02-HY)
RF Cable-R10m	Suhner Switzerland + BELDEN	RG223/U + RG8/U	CB026-DOOR	30MHz~1GHz	Nov. 30, 2007	Radiation (10CH02-HY)

※ Calibration Interval of instruments listed above is one year.

< EMS>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
ESD Simulator	SCHAFFNER	NSG 435	5537	Air: 0 kV - 16.5 kV Contact: 0 kV - 8 kV	Mar. 12. 2007	ESD
RS immunity Test system	HP	EMS test System	2062	80 MHz - 1 GHz 3V/m 10v/m	Nov. 21. 2007	RS
Amplifier	AR	250W 1000AM1	320482	80 MHz - 1 GHz	Nov. 21, 2007	RS
Power Meter	EMC Automation	438A	3513U04050	100 kHz - 4.2 GHz	Nov. 22, 2007	RS
Signal Generator	HP	8648A	3426A00771	100 kHz - 1 GHz	Nov. 23, 2007	RS
Power Sensor	HP	8481D	3318A13140	100 kHz - 1 GHz	Nov. 23, 2007	RS
Power Sensor	HP	8482A	3318A26464	100 kHz - 1 GHz	Nov. 23, 2007	RS
Attenuator	HP	8491A	53603	100 kHz - 1 GHz	Nov. 22, 2007	RS
Field Strength Monitoring Antennas (Probe)	AR	FP3000A	16077	0.1 MHz - 1 GHz	Oct. 26, 2007	RS
EFT Generator	KEYTEK	CE-40	9505216	0 kV - 4.4 kV	Oct. 04, 2007	EFT
Conducted Immunity Test System	FRANKONIA	CIT-10/75	1999010443	100 kHz - 266 MHz	Apr. 03, 2007	CS
Magnetic Generator	FCC (KEYTEK)	F-1000-4-8/9/10-L-1M	03003	30A//CONTINUOUS 100A/2Hrs 230A/30SEC	Sep. 21, 2007	PFMF

※ Calibration Interval of instruments listed above is one year.

17. Declaration of Conformity and the CE Mark

There are three possible procedures pertaining to the declaration of conformity :

17.1 Conformity Testing and Declaration of Conformity by the Manufacturer or His Authorized Representative Established within the Community or by an Importer.

- Article 10 (1) of the EMC Directive,
- § 3 (1) no. 2a of the EMC Act.

17.2 Declaration of Conformity Issued by the Manufacturer or His Authorized Representative Established within the Community or by an Importer Following Testing of the Product and Issued of an EC certificate of conformity by a competent body.

- Article 10 (2) of the EMC Directive,
- § 3 (1) no. 2b of the EMC Act.

17.3 Declaration of Conformity Issued by the Manufacturer or His Authorized Representative Established within the Community or by an Importer Following Testing and Certification of the Product by a Notified Body.

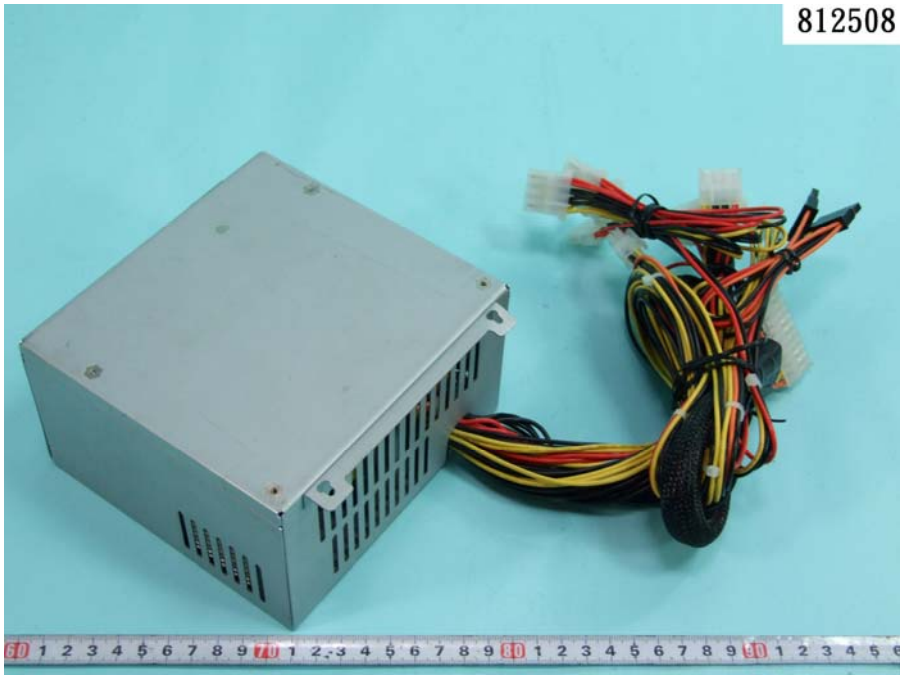
- Article 10 (5) of the EMC Directive,
- § 3 (1) no. 2b of the EMC Act (radio transmitting installations).

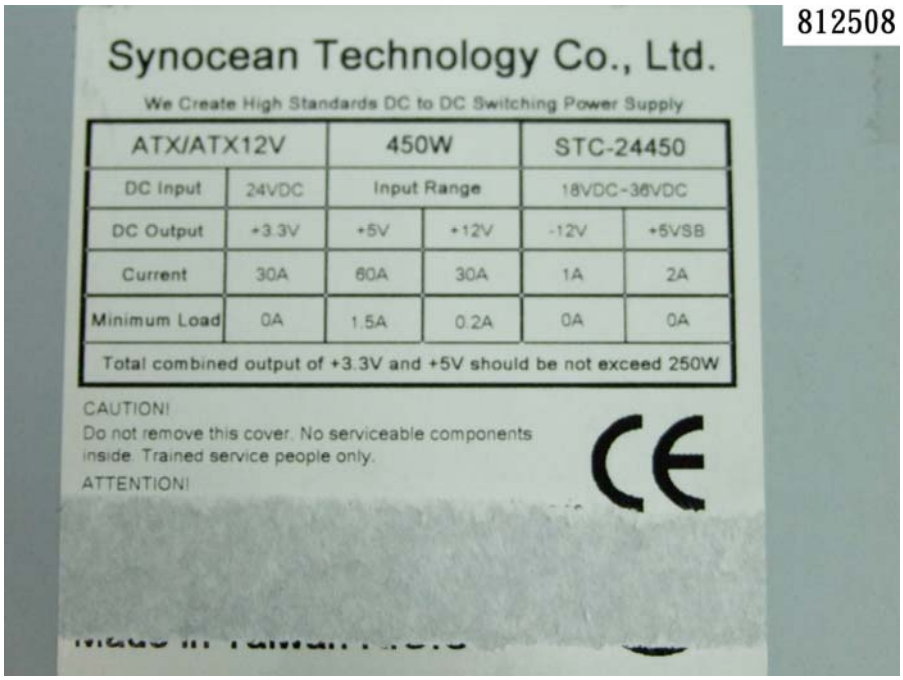
17.4 Specimen For The CE Marking Of Electrical / Electronical Equipment

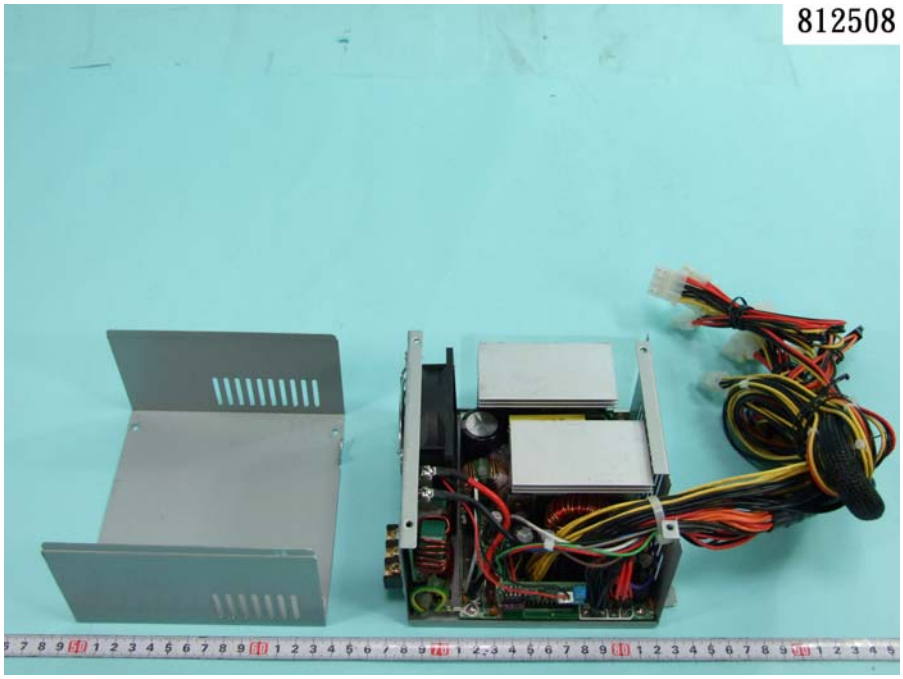
The components of the CE marking shall have substantially the same vertical dimension, which may not be less than 5 mm.

APPENDIX A. Photographs of EUT

Type: DC 24V




812508
Synocean Technology Co., Ltd.
We Create High Standards DC to DC Switching Power Supply
ATX/ATX12V 450W STC-24450
DC Input 24VDC Input Range 18VDC-36VDC
DC Output +3.3V +5V +12V -12V +5VSB
Current 30A 60A 30A 1A 2A
Minimum Load 0A 1.5A 0.2A 0A 0A
Total combined output of +3.3V and +5V should be not exceed 250W
CAUTION!
Do not remove this cover. No serviceable components inside. Trained service people only.
ATTENTION!
CE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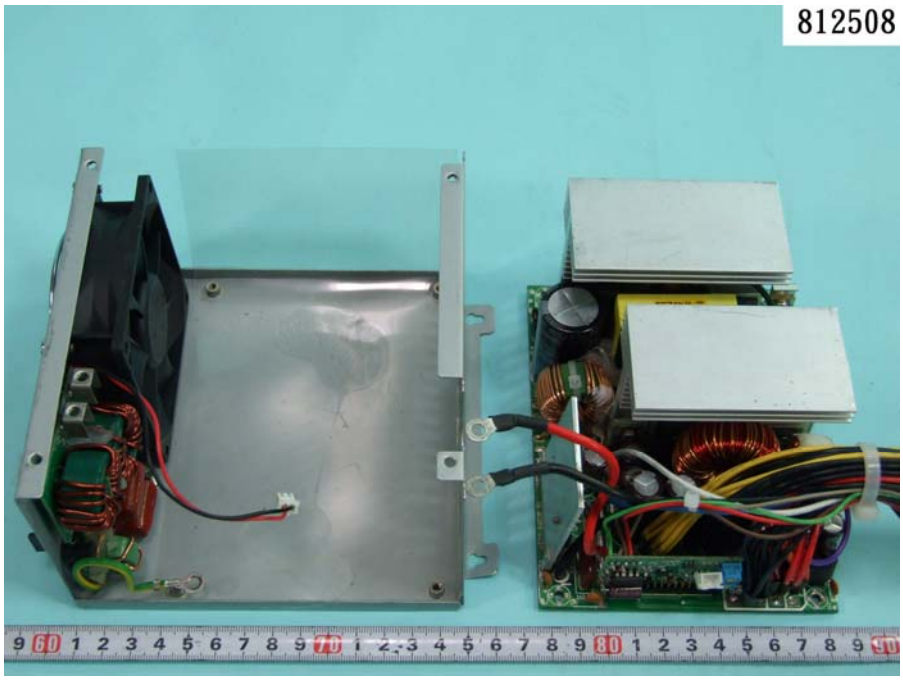
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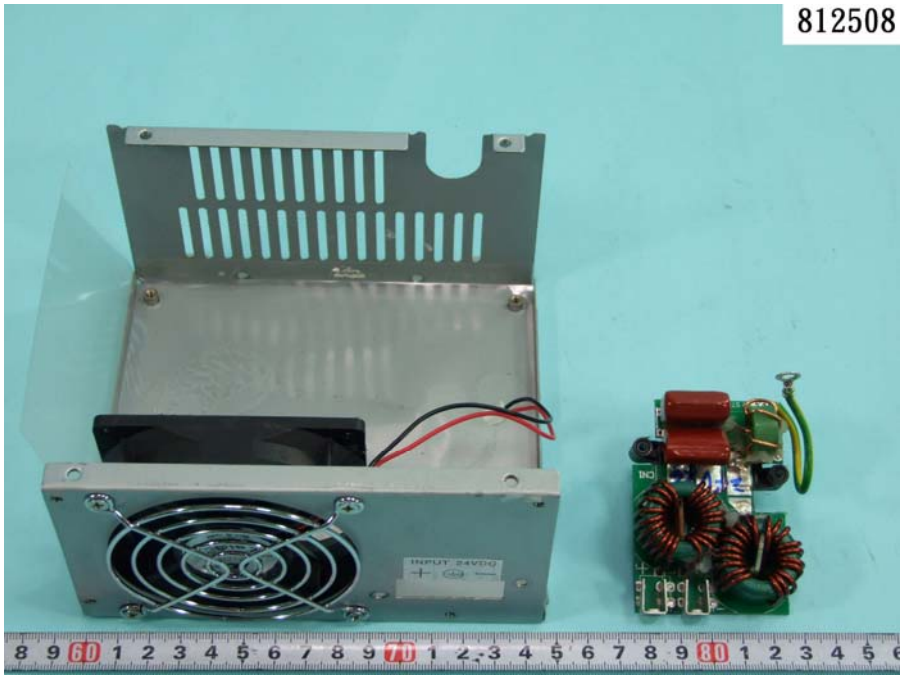
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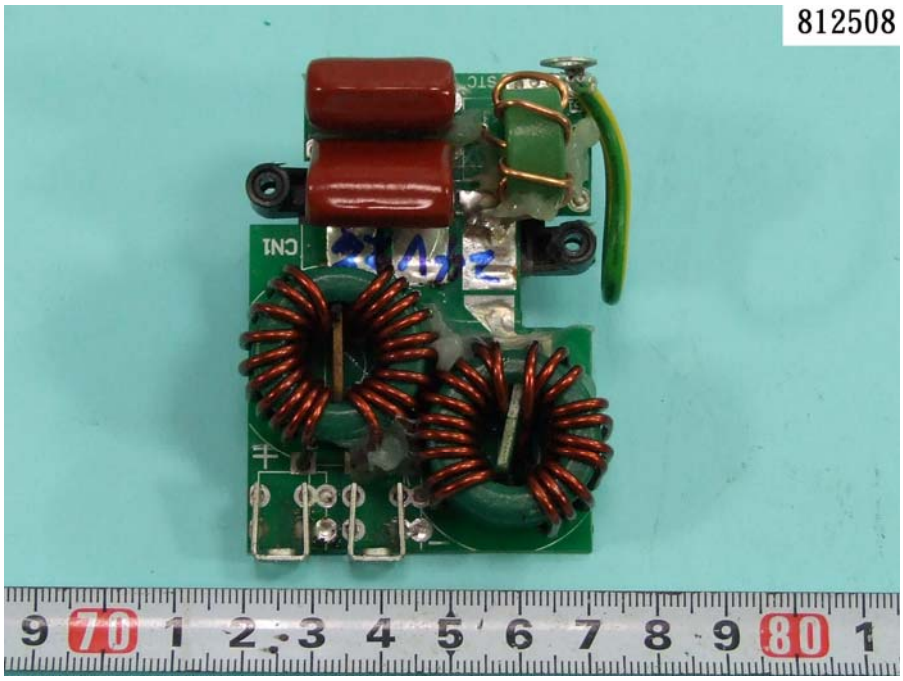
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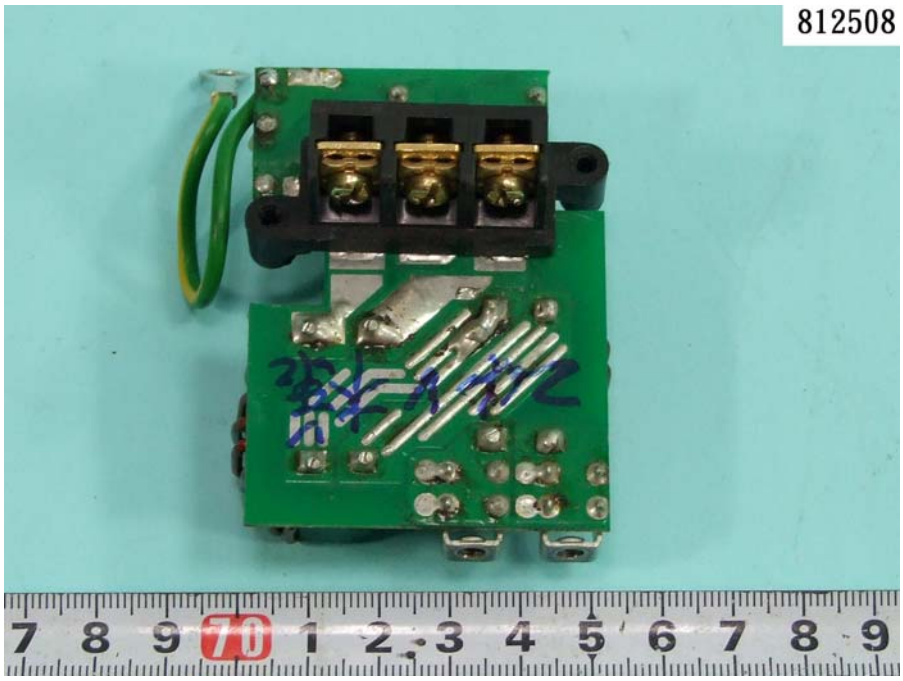
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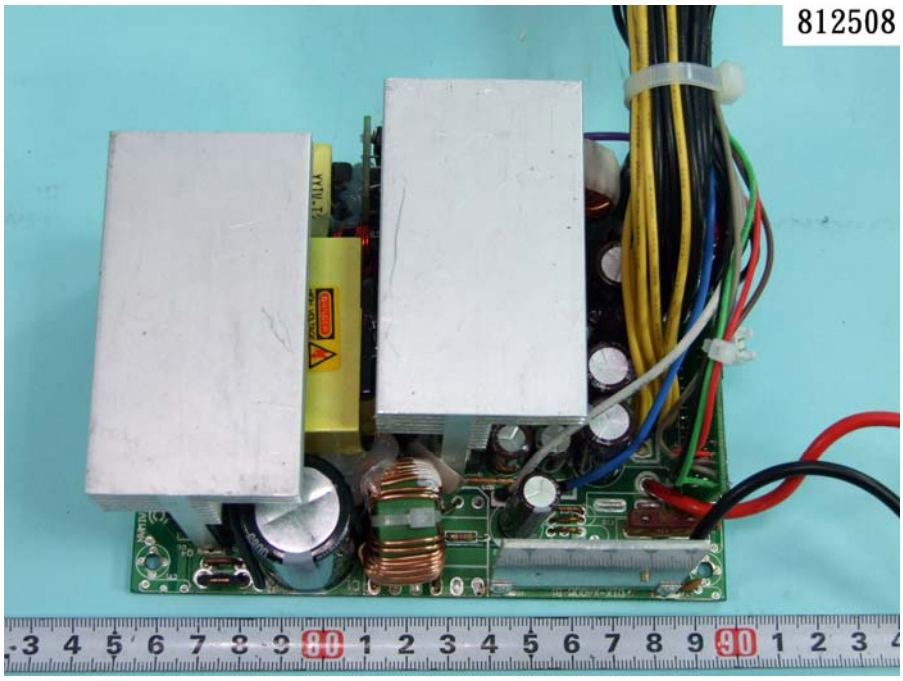
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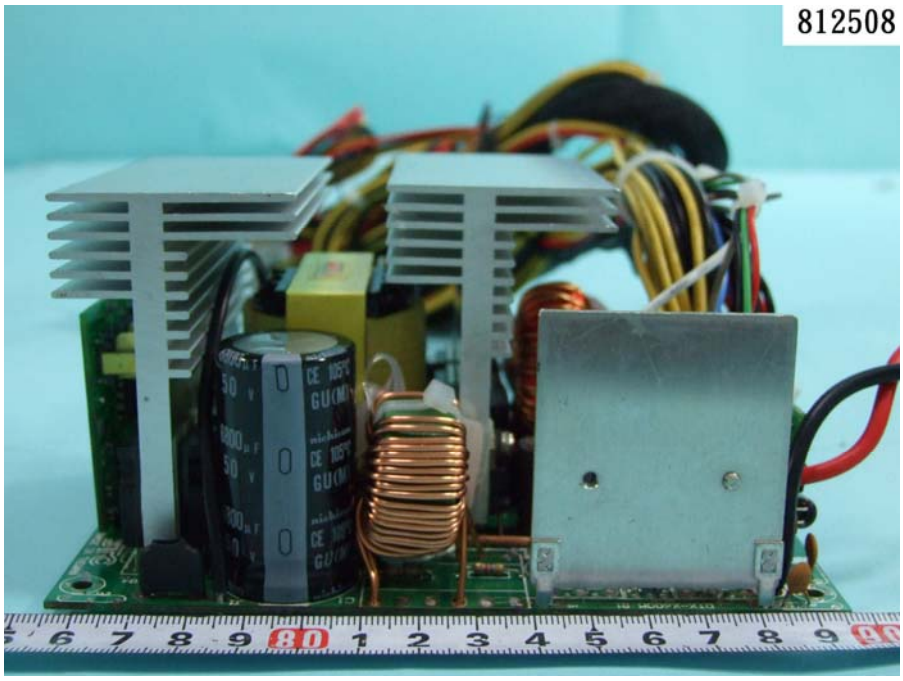
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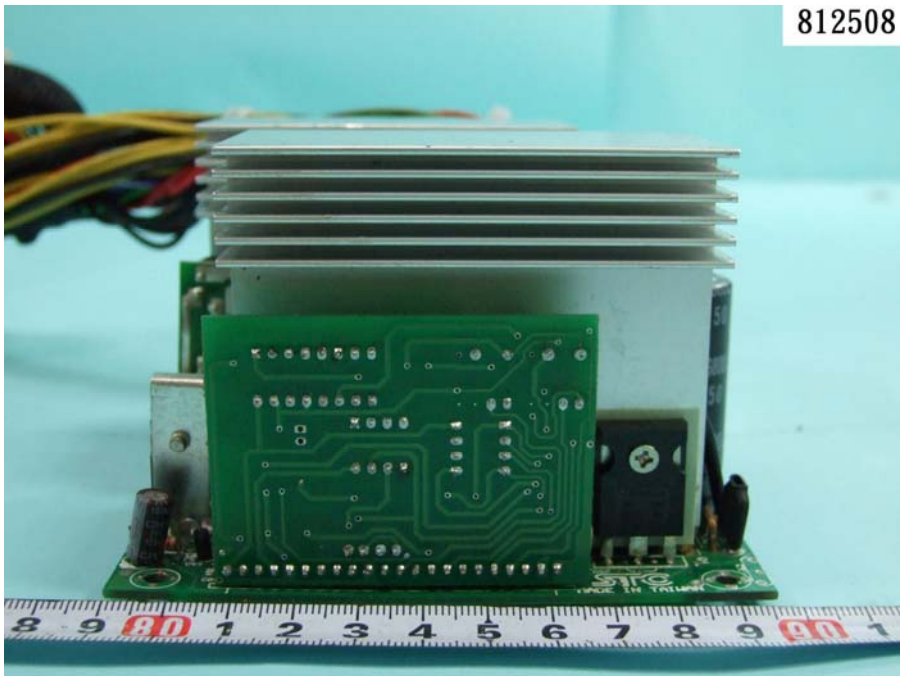
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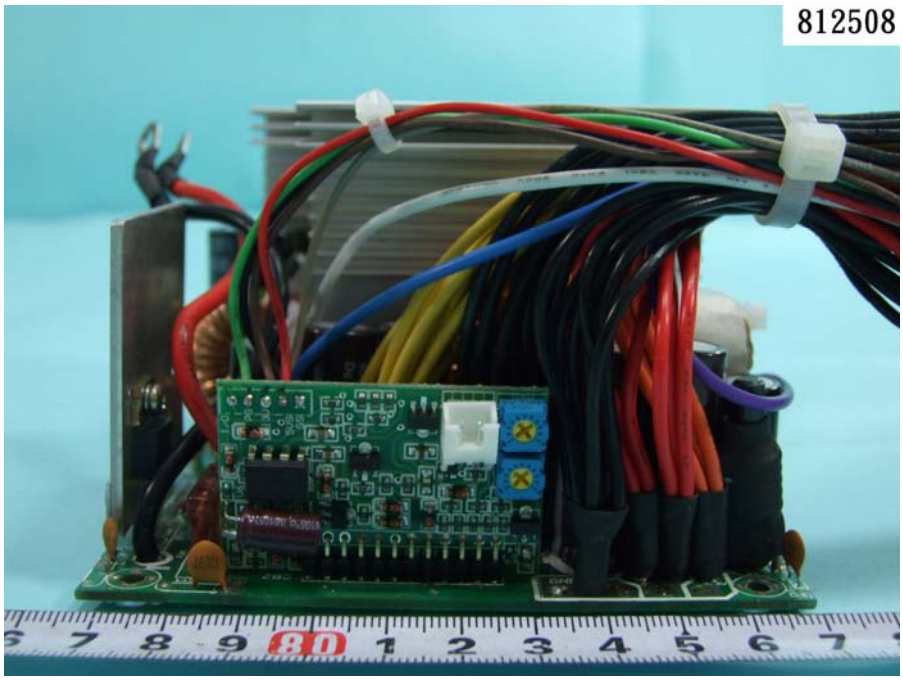
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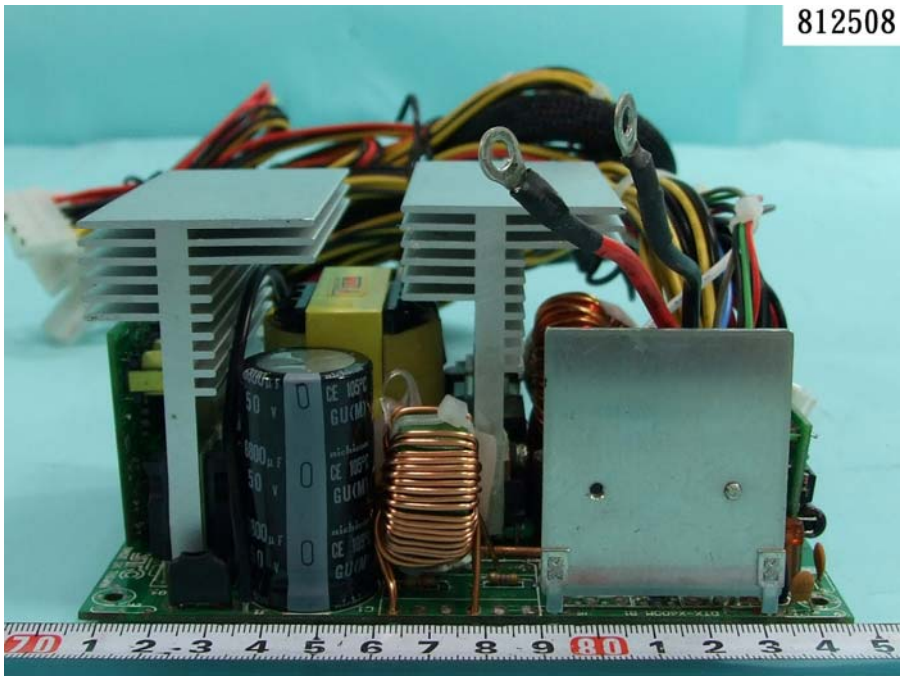
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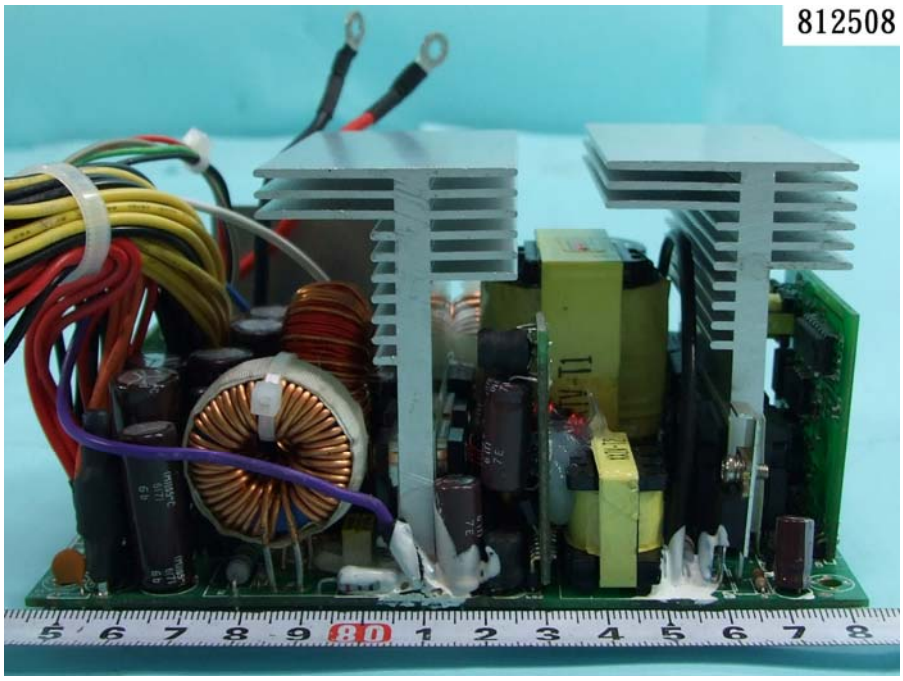
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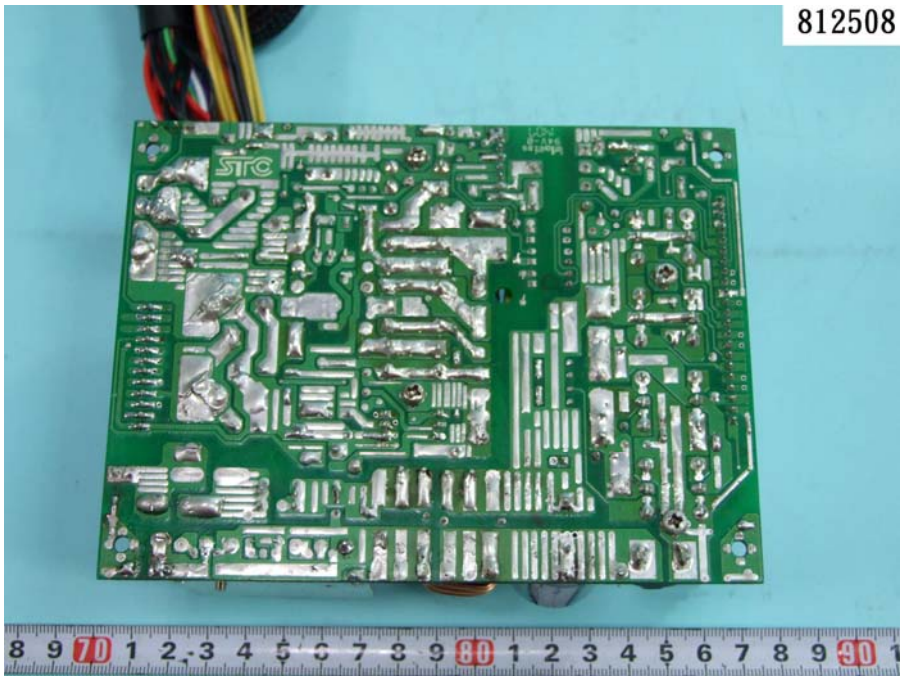
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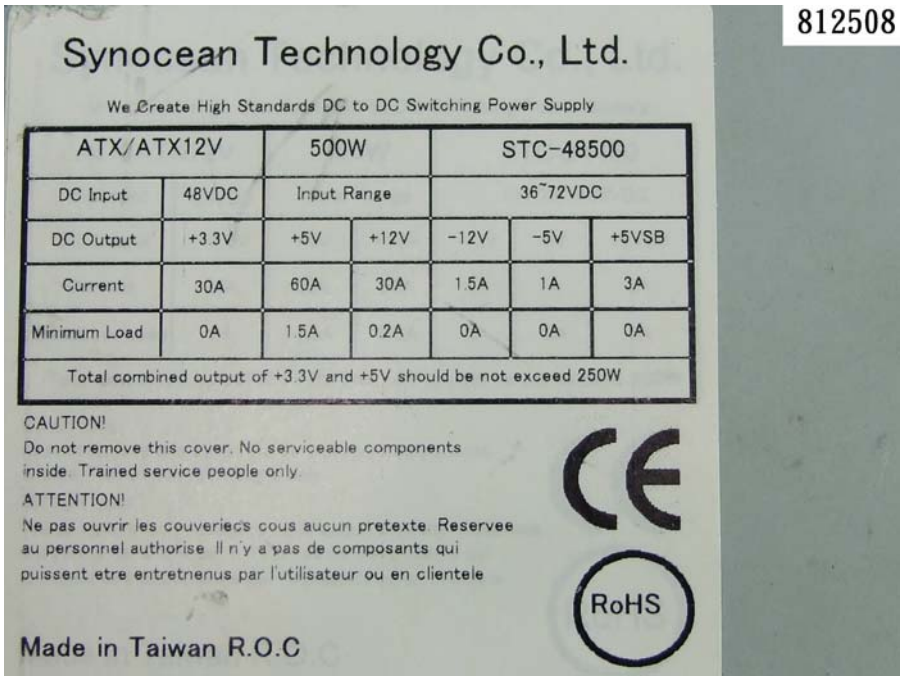
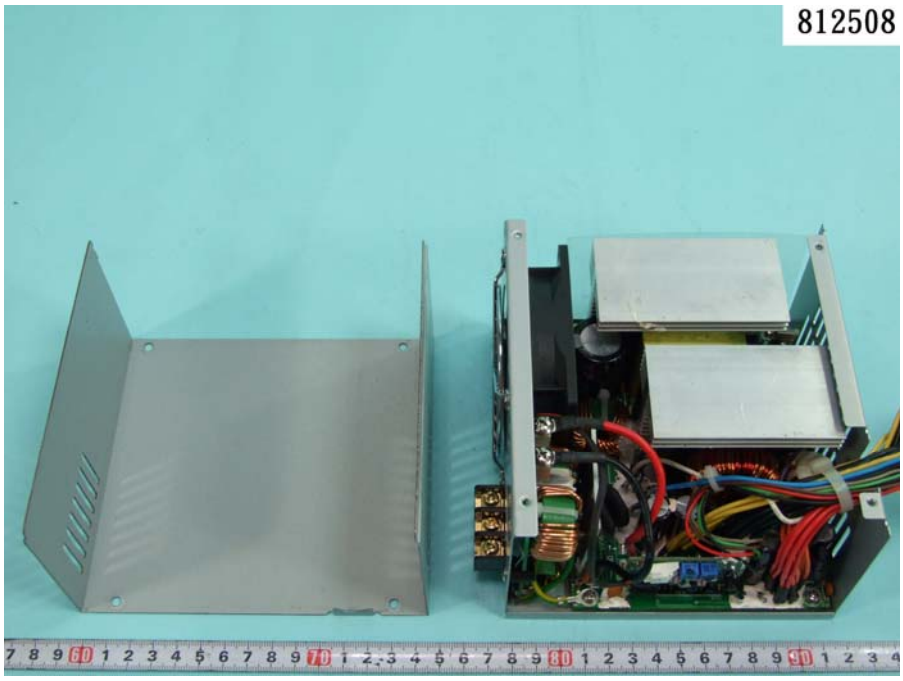
Type: DC 48V


812508
Synocean Technology Co., Ltd.
We Create High Standards DC to DC Switching Power Supply
ATX/ATX12V
500W
STC-48500
DC Input
48VDC
Input Range
36~72VDC
DC Output
+3.3V
+5V
+12V
-12V
-5V
+5VSB
Current
30A
60A
30A
1.5A
1A
3A
Minimum Load
0A
1.5A
0.2A
0A
0A
0A
Total combined output of +3.3V and +5V should be not exceed 250W
CAUTION!
Do not remove this cover. No serviceable components inside. Trained service people only.
ATTENTION!
Ne pas ouvrir les couverieds cous aucun pretexte. Reservee au personnel authorise. Il n'y a pas de composants qui puissent etre entretnenus par l'utilisateur ou en clientele
CE
RoHS
Made in Taiwan R.O.C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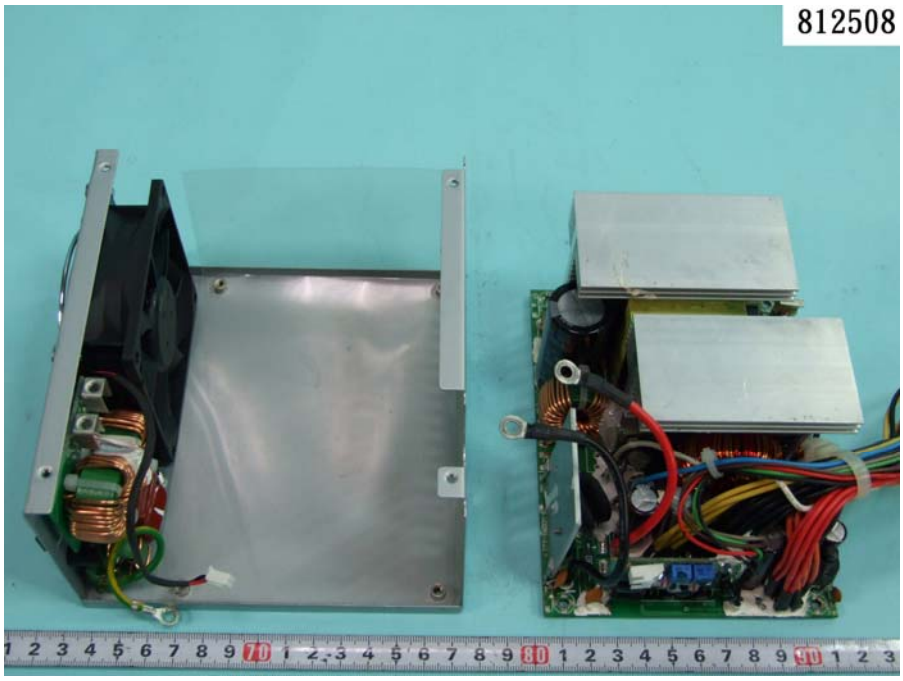
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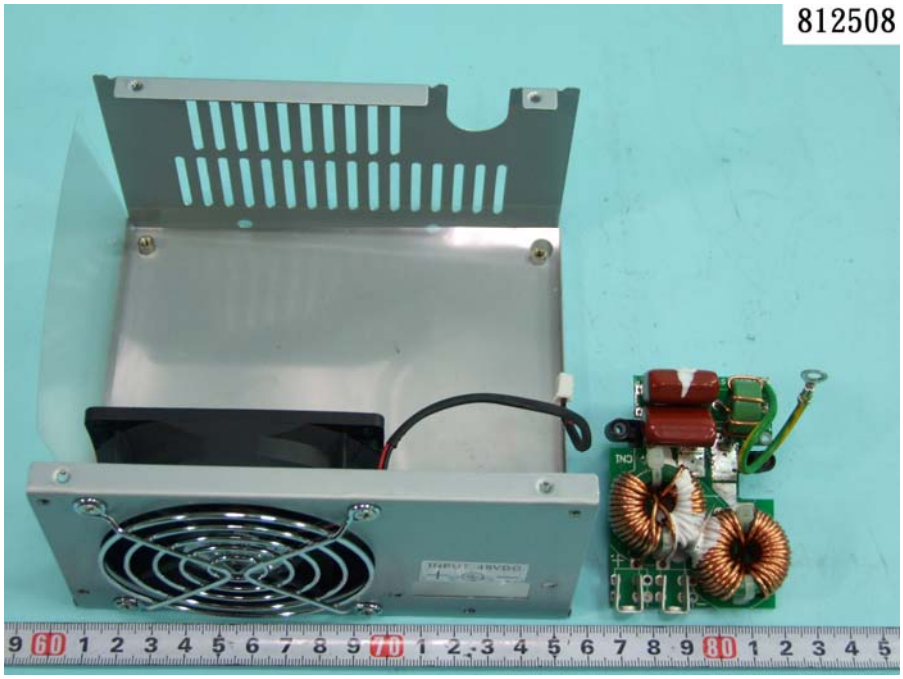
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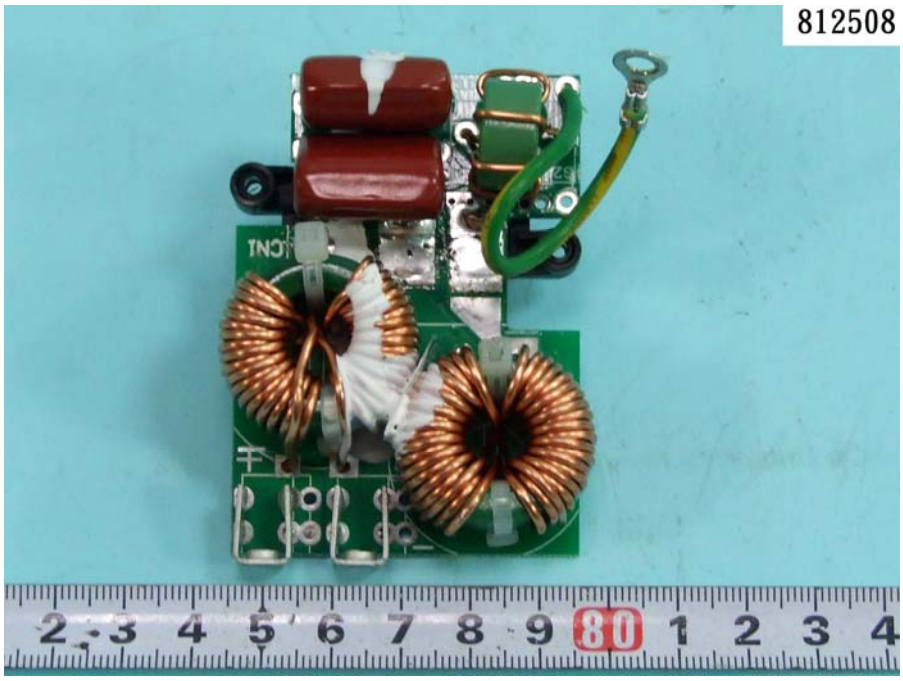
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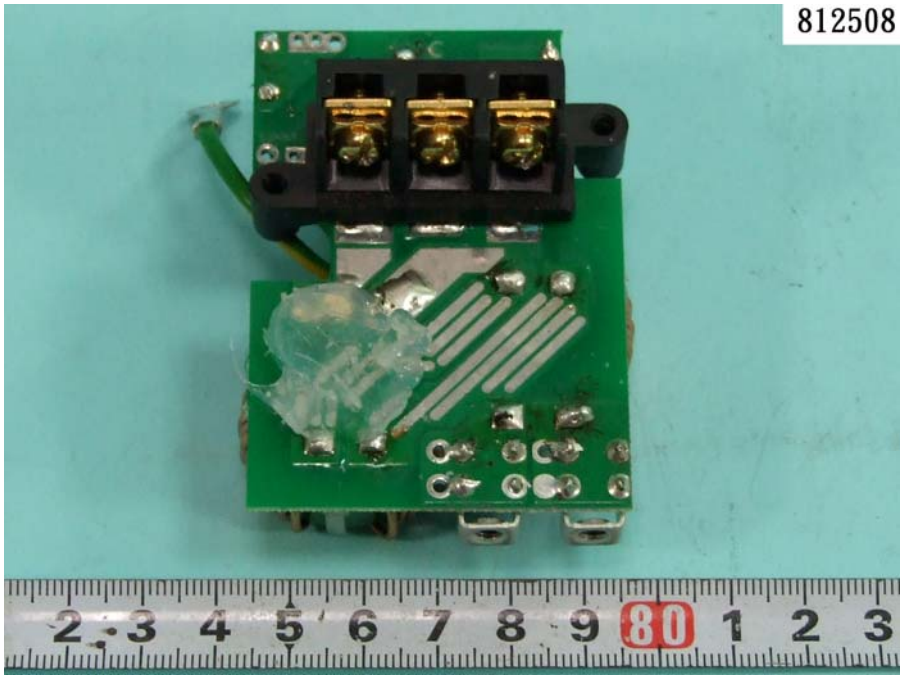
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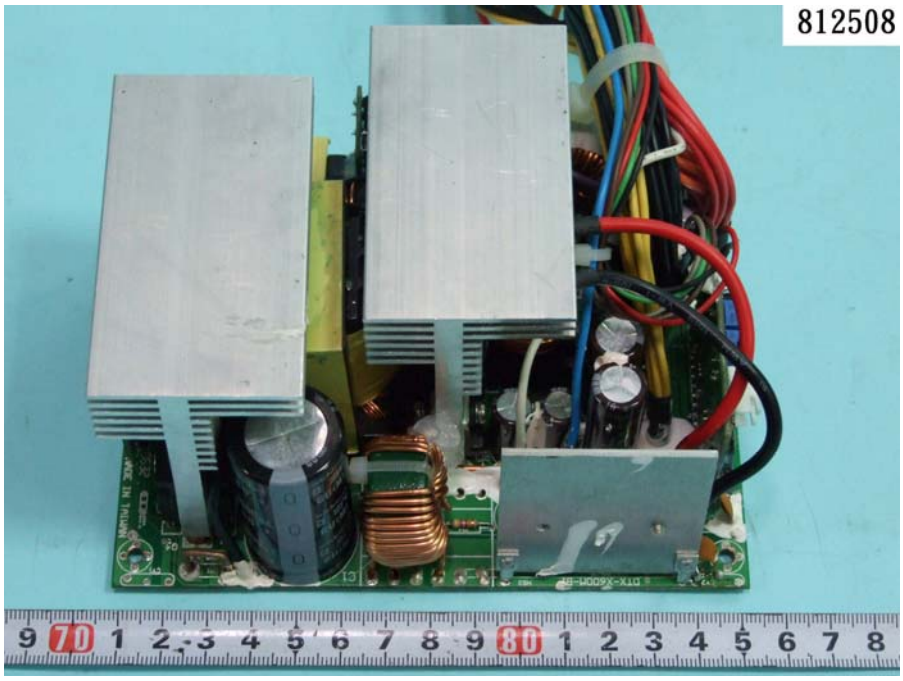
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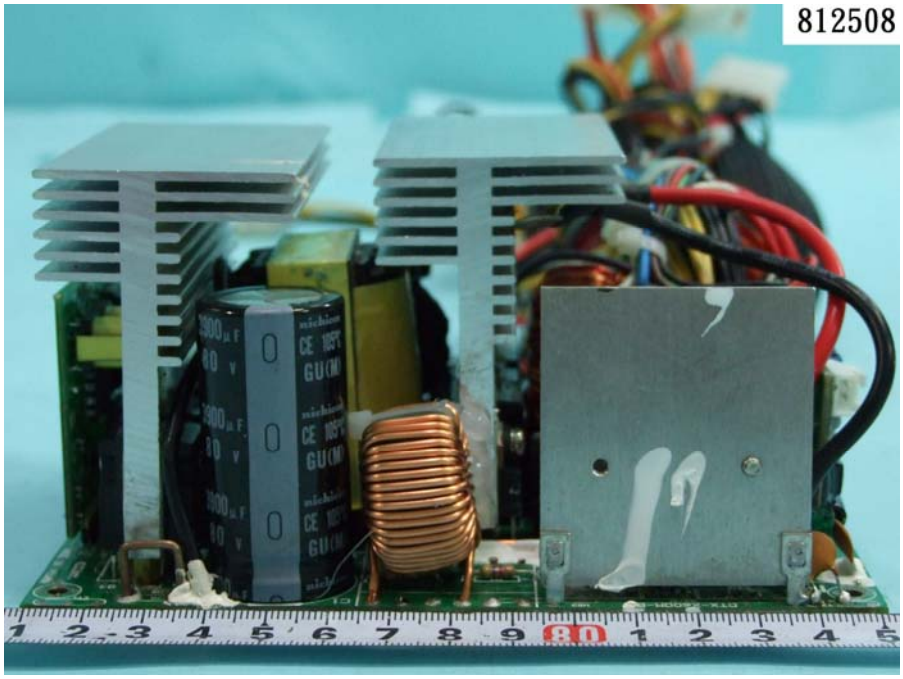
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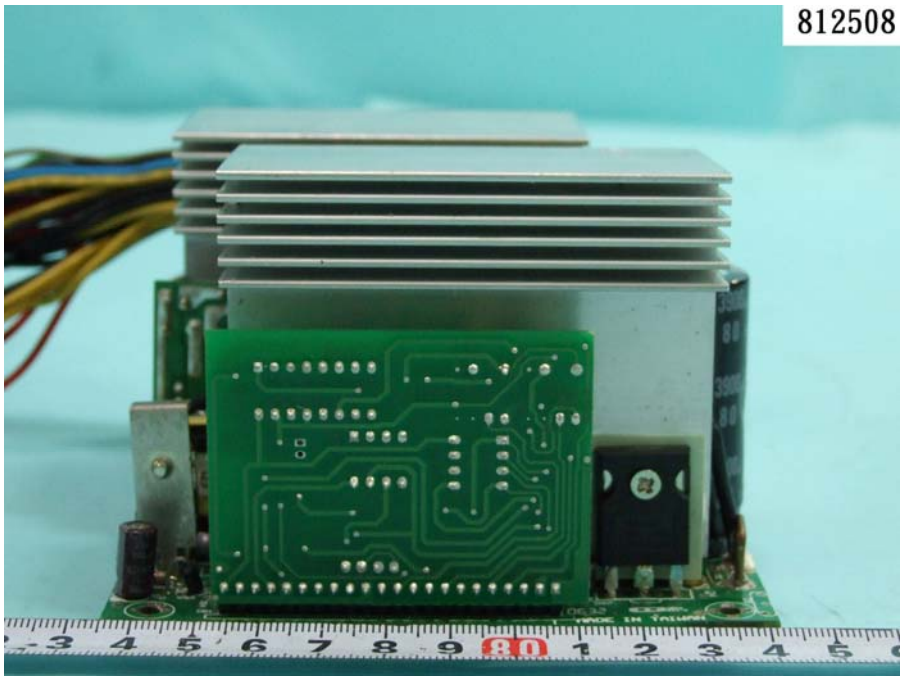
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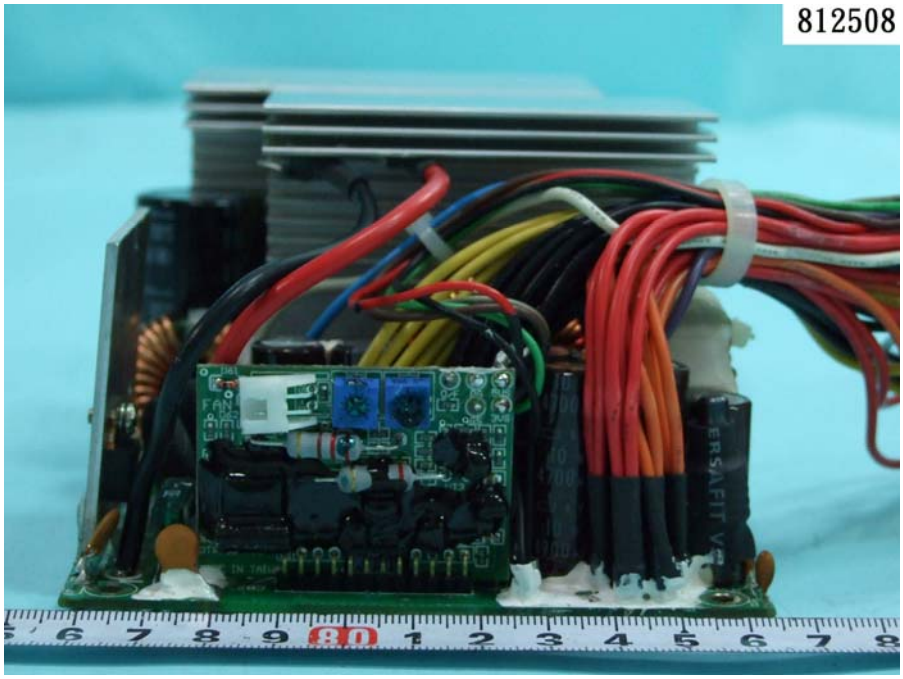
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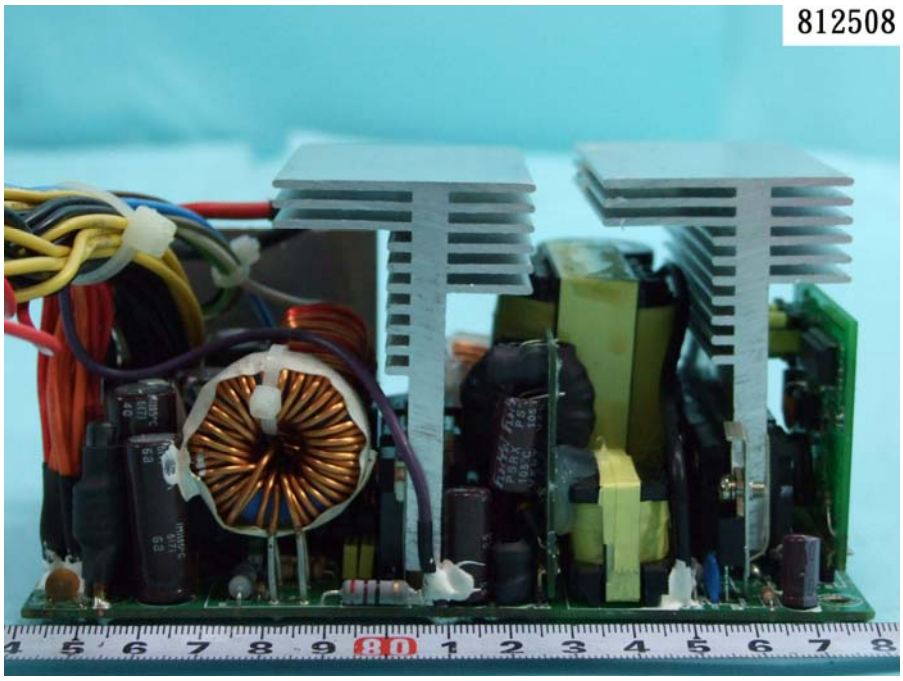
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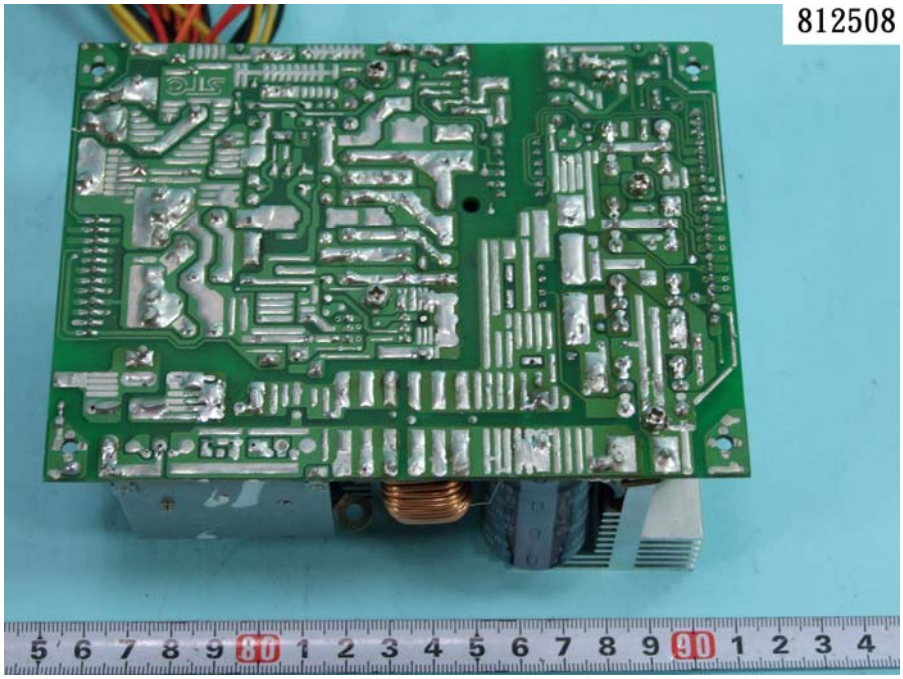
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